

SEQUENCE LISTING

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Wang, Tongtong
Mohamath, Raodoh
Indirias, Carol Y.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
AND DIAGNOSIS OF LUNG CANCER

<130> 210121.512

<140> US

<141> 2001-04-11

<160> 440

<170> FastSEQ for Windows Version 4.0

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<211> 567

<212> DNA

<213> Homo sapien

<400> 1

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<211> 413

<212> DNA

<213> Homo sapien

<400> 2

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 <212> DNA
 <213> Homo sapien

<400> 4
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 <212> DNA
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<210> 6
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 <212> DNA
 <213> Homo sapien

<400> 6

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aaggggcagc	agggacaaaa	acgtttccaa	gacatgatgg	gccacggatc	tgactactca	240
ctcagtgaag	tgctgtgggt	ctgtgccaac	ctcttttagtg	atgtccaatt	caagatgagt	300
cataagagga	tcatgctgtt	caccaatgaa	gacaaccccc	atggcaatga	cagtgccaaa	360
gccagccggg	ccaggaccaa	agccggtgat	ctccgagata	caggcatctt	ccttgacttg	420
atgcacctga	agaaacctgg	gggctttgac	atatccttgt	tctacagaga	tatcatcagc	480
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<211> 566

<212> DNA

<213> Homo sapien

<400> 7

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aaacgggcgt	cgcagcatga	agtcgccggc	cctcgtgctg	gccgccctgg	tggcctgcat	240
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gatcatggag	ctggaaggca	gggtccgcag	ggcggctgca	gagagaggcg	ccgtggagct	360
gaagaagaac	gagttccagg	gagagctgga	gaagcagcgg	gagcagcttg	acaaaatcca	420
gtccagccac	aaattccagc	tggagagcgt	caacaagctg	taccaggacg	aaaaggcggg	480
tttggtgaat	aacatcacca	caggtgagag	gtcatccga	gtgctgcaag	accagttaaa	540
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<210> 8

<211> 515

<212> DNA

<213> Homo sapien

<400> 8

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aaatgtctcg	aaaaatttca	aaggagtcaa	aaaaagtga	catctctagt	tctctggaat	300
ctgaagatat	tagtttagaa	acaacagttc	ctacggatga	tatttcctca	tcagaagagc	360
gagagggcaa	agtcagaatc	accaggcagc	taattgaacg	aaaagactac	ttcataatat	420
tcagttacta	aaaattgagc	tatcccagaa	aactatgatg	atcgacaatt	tgaaagtgga	480
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<210> 9

<211> 415

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(415)

<223> n = A,T,C or G

<400> 9

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gaagaacaag	aagagaacct	tgaagcaagt	ggagactata	aatattcagg	aagagatagt	180
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acaccttttg	acatgagcat	ccagtgtatc	caaagtgtgt	acatcagtaa	gatcataaagc	300
agtgatcgag	atctcttggc	tgtggtgttc	tatggtaccg	agaaagacaa	aaattcantg	360
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<210> 10
 <211> 565
 <212> DNA
 <213> Homo sapien

<400> 10	
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ttgcatgact	gtggttcaga
gcggctggaa	gttggaacag
gatgcagctg	tttgaagagt
atgctatgga	ggcacagctg
ggatggacgg	tatgccctgg
caagctttgtg	cccgaaggag
cacacagctc	tttcaccatg
aagatgtggg	aattgttgcc
atatgatggt	gtagatgctg
ctgcacagat	agagaagata
gagaaataac	ctttcctatg
cgacaaatca	aagtctgtga
agatatagaa	ggaatcgaca
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tagtt	
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120	
180	
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300	
360	
420	
480	
540	
565	

<210> 11
 <211> 505
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(505)
 <223> n = A,T,C or G

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gccgtcaggt	acagagggca
tangaggctt	taccanaagg
ctgaggactg	gttctgcaca
ttgtaacaaa	ttaaaaccta
acagactcgg	ggtgctggca
ccagtctccc	gggcatggca
gacgttaagt	tgggtgacac
tgtctcaata	agtgcacca
gacaacgcac	gctgacatca
caggaactgc	tgtcctttca
gctggtgggc	aagtaagatt
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ttgtttattc	
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240	
300	
360	
420	
480	
505	

<210> 12
 <211> 513
 <212> DNA
 <213> Homo sapien

<400> 12	
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aggagcttgg	ggaagggaag
ggttctgccc	
60	
120	

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agttctggaa	aacagtcagg	gtcagctgat	ctacgagtct	gccatcacct	gtgagtacct	300
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gaagatgac	ttagagttgt	tttctaaggt	gccatccttg	gtaggaagct	ttattagaag	420
ccaaaataaa	gaagactatg	atggcctaaa	agaagaattt	cgtaaagaat	ttaccaagct	480
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<210> 13
 <211> 375
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(375)
 <223> n = A,T,C or G

<400> 13						
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ggaggccacc	gancggggcg	tgggcaacgt	gggcccctgt	gacctgctgg	tgaacaacgc	300
ccctgtcccc	tgcttcaacc	ctttctggaa	gtcaccaaag	aagcctttga	cagatccttt	360
taagtgaacc	tgctg					375

<210> 14
 <211> 298
 <212> DNA
 <213> Homo sapien

<400> 14						
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taatatagga	aggtgttctt	taggtatgtt	acaggattac	tttaaaccat	ttgactttcg	120
ctccaaagtt	atgttggtag	tatagcaa	tatgatgaat	agctttaatt	gtatgtttaa	180
aagtctcata	tgttcacatg	cttaaactct	ggtatcagaa	tttaagcaat	tcttgaatg	240
tattgtctcc	ttaatatact	aattacaaag	caaaaaaaaa	aaaaaaaaaa	aactcgag	298

<210> 15
 <211> 506
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(506)
 <223> n = A,T,C or G

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gtagaagacc	ttggctccaa	gatactctc	acctgctcct	tgaatgacag	cgccacagag	180
gtcacagggc	accgctggct	gaaggggggc	gtggtgctga	aggaggacgc	gctgcccggc	240

cagaaaacgg	agttcaaggt	ggactccgac	gaccagtggg	gagagtactc	ctgcgtcttc	300
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tgtgaagtcg	tcaagaacac	atcaacgagg	gggagacggc	catgctggtc	tgcaagtcag	420
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acaaggecct	tattgaaccg	gcttcc				506

<210> 16
 <211> 286
 <212> DNA
 <213> Homo sapien

<400> 16						
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tttaaattggc	aaaaacaaaa	catgattttg	tgcaattaac	aaagctactg	caagaaaaat	240
aaaacacttc	ttggtaacac	aaaaaaaaaa	aaaaaaaaaa	ctcgag		286

<210> 17
 <211> 387
 <212> DNA
 <213> Homo sapien

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 <221> misc_feature
 <222> (1)...(387)
 <223> n = A,T,C or G

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cccaagggtta	cttaciaaagc	tccagttcca	acaggggaag	tatatatttg	tgattctttt	300
gacagaggaa	ctctgtcagg	gtggatttta	tccaaagcca	agaaagacna	tcccgatgat	360
gaaattgcc	aatatgatgg	aaagtgg				387

<210> 18
 <211> 415
 <212> DNA
 <213> Homo sapien

<400> 18						
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aaaccgaggg	cgatgaagaa	gcagaggaag	aacaagaaga	gaaccttgaa	gcaagtggag	120
actataaata	ttcaggaaga	gatagtttga	tttttttggg	tgatgcctcc	aaggctatgt	180
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gtaccgcgaga	aagacaaaaa	ttcagtgaa	tttaaaaaata	tttacgtctt	acaggagctg	360
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<210> 19
 <211> 466
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 19

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gggaaaaccg	aagccagaat	gaaaaagtgg	gaaaaacttt	tgaaagcttg	cccgtgccat	420
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<210> 20

<211> 296

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 20

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tgtgagctag	agtgaagcag	aaatctagga	agatgagctc	caagatggtc	ataagtgaac	180
caggactgaa	ttgggatatt	tccccaaaaa	atggccttaa	gacatttttc	tctcagaaaa	240
ttataaagat	cattccatgg	cttccaagtt	taaaaagaac	ttacgtggtt	tttattc	296

<210> 21

<211> 328

<212> DNA

<213> Homo sapien

<400> 21

gaattcggca	cgagcccgcg	ctgcaacttg	tgcgcgcgtg	actggaggag	cgagccccc	60
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gtggggatgt	ggccgggggg	cgtcggaag	cgtcaactgt	tgatgtccga	gctcagcgat	180
gaagccagcg	agccgggaact	cctgaaccgc	agcttgtcca	tgtggcacgg	gctcgggaca	240
caggtcagcg	gggaggagct	ggatgtcccc	ctggatcttc	acacagctgc	ttcattggcc	300
agtatgaagt	ggtgaaggaa	tgtgtgca				328

<210> 22

<211> 466

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 22

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ggagatctcc	gcgcaaataa	gggcgagact	gaaaaatcaa	gtcactcagt	tgaaggagca	120
agtacctggt	ttcacaccac	gcctggcaat	attacagggt	ggcaacagag	atgattccaa	180
tctttatata	aatgtgaagc	tgaaggctgc	tgaagagatt	gggatcaaag	ccactcacat	240
taagttacca	agaacaacca	cagaatctga	ggtgatgaag	tacattacat	ctttgaatga	300
agactctact	gtacatgggt	tcttagtgca	gctaccttta	gattcagaga	attccattaa	360
cactgaagaa	gtgatcaatg	ctattgcacc	cganaaggat	gtggatggat	tgactagcat	420
caatgctggg	aaacttgcta	gaggtgacct	caatgactgt	ttcatt		466

<210> 23

<211> 517

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(517)

<223> n = A,T,C or G

<400> 23

gaattcggca	cgagcagagg	tctccagagc	cttctctctc	ctgtgcaaaa	tggcaactct	60
taaggaaaaa	ctcattgcac	cagttgcgga	agaagaggca	acagttccaa	acaataagat	120
cactgtagtg	ggtgttggac	aagttggtat	ggcgtgtgct	atcagcattc	tgggaaagtc	180
tctggctgat	gaacttgctc	ttgtggatgt	tttggaagat	aagcttaaag	gagaaatgat	240
ggatctgcag	catgggagct	tatttcttca	gacacctaaa	attgtggcag	ataaagatta	300
ttctgtgacc	gccaatctta	agattgtagt	ggtaactgca	ggagtccgtc	agcaagaagg	360
ggagagtogg	ctcaatctgg	tgcagagaaa	tgtaaatgtc	ttcaaattca	ttattcctca	420
gatcgtcaag	tacagtcttg	attgcatcat	aattgtggnt	tccaacccag	tggacattct	480
taogtatgtt	acctggaac	taagtggatt	acccaaa			517

<210> 24

<211> 196

<212> DNA

<213> Homo sapien

<400> 24

gaattcggca	cgagggtggc	actatgtggc	gcgtctgtgc	gcgacgggct	cagaatgtag	60
ccccatgggc	gggactcgag	gctcggtgga	cggcettgca	ggaggtaccc	ggaactccac	120
gagtgacctc	gcgatctggc	cgggctcccg	ctcgtcgcaa	cagcgtgact	acagggtatg	180
gcggggtccg	ggcact					196

<210> 25

<211> 365

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(365)

<223> n = A,T,C or G

<210> 29
 <211> 512
 <212> DNA
 <213> Homo sapien

<400> 29
 gaattcggca cgagcaacct tgtaaatgtg aaagtacaac tcgtatttat ctctgatgtg 60
 ccgctggctg aactttgggt tcatttgggg tcaaagccag tttttctttt aaaattgaat 120
 tcattctgat gcttggcccc cataccccc accttgtcca gtggagccca acttctaaag 180
 gtcaatatat catccttttg catcccaact aacaataaag agtaggctat aagggaagat 240
 tgtcaatatt ttgtggttaag aaaagctaca gtcatttttt ctttgcaact tggatgctga 300
 aatttttccc atggaacata gccacatcta gatagatgtg agctttttct tctgttaaaa 360
 ttattcttaa tgtctgtaaa aacgattttt ttctgtagaa tgtttgactt cgtattgacc 420
 cttatctgta aaacacctat ttgggataat atttgaaaa aaagtaaata gctttttcaa 480
 aatgaaaaaa aaaaaaaaaa aaaaaactcg ag 512

<210> 30
 <211> 464
 <212> DNA
 <213> Homo sapien

<400> 30
 gaattcggca cgaggccagg tgggcagccc ggggaccgac cctactcgg cggcgcaact 60
 ccacaaccag tacggccccc tgaatatgaa catgggatg aacatggcag cagccgggc 120
 ccaccaccac caccaccacc accaccacc cggtgccttt tcccgcgtat atgcggcagc 180
 agtgcaccaa gcaggagcta atctgcaagt ggatcgaccc cgagcaactg agcaatccca 240
 agaagagctg caacaaaact ttcagcacca tgcacgagct ggtgacacac gtctcggtg 300
 agcagctcgg cggcccgagg cagagcaacc acgtctgctt ctgggaggag tgtccgcgcg 360
 agggcaagcc cttcaaggcc aaatacaaac tggtaacca catccgcgtg cacacaggcg 420
 agaaaccctt cccctgcccc ttcccggtt gtggcaaagt cttc 464

<210> 31
 <211> 317
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 31
 gaattcggca cgagcagagg tgagcaagct ggaacagcaa tgccagaagc agcaggagca 60
 ggctgacagc ctggaacgca gcctcgaggc tgagcgggcc tcccgggctg agcgggacag 120
 tgctctggag actctgcagg gccagttaga ggagaaggcc cangagctag ggcacagtca 180
 gagtgcctta gcctcggccc aacgggagtt ggctgccttc cgcaccaagg tacaagacca 240
 cagcaaggct gaagatgagt ggaaggccca gttggcccgg ggccggcaag aggctganag 300
 gaaaaatagc ctcatca 317

<210> 32
 <211> 275
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(275)
 <223> n = A,T,C or G

<400> 32
 gaattcggca cgagcgaagg aggacggagg cttcagacac tcggaagcct ttgaggcact 60
 ccagcaaaag agtcagggac tggactccag gctccagcac gtggaggatg ggggtgctctc 120
 catgcagggt gcttctgcgc gccagaccga gagcctggag tccctcctgt ncaagagcca 180
 ggagcacgag cagcgccctgg ccgccctgca ggggcgcctg gaaggcctcg ggtcctcata 240
 ggcanaccan gatggcctgc cagcacgggt aggag 275

<210> 33
 <211> 516
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(516)
 <223> n = A,T,C or G

<400> 33
 gaattcggca cgaggggggcc tgggcgttga ctgtgggaaa ctcggaaaca agctcacatc 60
 ttctgttggg aaaccttcta gcaacaggat gactctgcag tggactgcag ttgccacctt 120
 cctctatgcg gaggtctttg ttgtgttgct tctctgcatt tccttcattt ctctaaaaag 180
 atggcagaag attttcaagt cecggctggg ggagttgtta gtgtcctatg gcaacacctt 240
 ctttgtggtt ctcatgttca tccttgtgct gttggtcacg gatgccgtgc gcgaaattcg 300
 gaagtatgat gatgtgacgg aaaagggtgaa cctccagaac aatcccgggg ccatggagca 360
 cttccacatg aagnttttcc gtgcccagag gaatctctac attgctggct tttccttgct 420
 gctgtccttc ctgcttagac gcctggtgac tctcatttcc aacaggccac gctgctggcc 480
 ttcaatgaac ctttaaaaaa aggcgagag tinctat 516

<210> 34
 <211> 446
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(446)
 <223> n = A,T,C or G

<400> 34
 gaattcggca cgagacagaa atgnctaaag aagagaagga ccctggaatg ggtgcaatgg 60
 gtggaatggg aggtggtatg ggaggtggca tgttctaact cctagactag tgctttacct 120
 ttattaatga actgtgacag gaagcccaag gcagtgttcc tcccaataac ttcagagaag 180
 tcanttgag aaaatgaaga aaaaggctgg ctgaaaatca ctataaccat cagtactgg 240
 tttcagttga caaaatatat aatggtttac tgctgtcatt gtccatgcct acagataatt 300
 tattttgtat ttttgaataa aaaacatttg tacattcctg atactgggta caagagccat 360
 gtaccagtg actgctttca acttaaatca ctgaggcatt tttactacta ttctgttaaa 420
 atcaggattt tagtgcttgc ccccca 446

<400> 25

gaattcggca	cgagggttggg	cggtgctggt	ttttcgctcg	tgcactgcgg	ctcttctctg	60
ggcagcggaa	gcggcgcggc	ggtcggagaa	gtggcctaaa	acttcggcgt	tgggtgaaag	120
aaaatggccc	gaaccaagca	gactgctcgt	aagtcaccg	gtgggaaagc	cccccgcaaa	180
cagctggcca	cgaaaagccg	caggaaaaagc	gctccctcta	ccggcggggt	gaagaagcct	240
catcgctaca	ggcccgggac	cgtggcgctt	cganagattc	gtcgttatca	gaagtgcacc	300
gagctgctca	tccggaagct	gcccttccag	angttggtga	gggagatcgc	gcaggatttc	360
aaaac						365

<210> 26

<211> 321

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(321)

<223> n = A,T,C or G

<400> 26

ctcgagtttt	tttttttttt	tttttttgta	cgaaatggct	aagtttattc	aacatctcgg	60
atattcatct	ggatattggg	tttgttttgt	gatacaatac	atattcacct	taactgggtgc	120
tactgcaaag	aaagctttct	tgacctgcat	gacgtgcctc	anagcttctc	tccaccaatt	180
ggaaccaccc	aaagcctagt	ctanaccaa	gtgctctgga	gaaaaaaaaa	aaaacaaaaa	240
aacagcaaac	agaaaacagt	tgtgccccca	aaagtactca	gaagtcatat	gttattttaca	300
attgggtttg	tgtgggatgg	g				321

<210> 27

<211> 454

<212> DNA

<213> Homo sapien

<400> 27

gaattcggca	cgagcaagga	tgaggagaac	aatccccttg	agacagaata	tggcctttct	60
gtctacaagg	atcaccagac	catcaccatc	caggagatgc	cggagaaggc	cccagccggc	120
cagctcccc	gctctgtgga	cgtcattctg	gatgatgact	tgggtggataa	agcgaagcct	180
ggtgaccggg	ttcagggtgg	gggaacctac	cgttgccctc	ctggaaagaa	gggaggctac	240
acctctggga	ccttcaggac	tgtcctgatt	gcctgtaatg	ttaagcagat	gagcaaagga	300
tgctcagccc	tctttctctg	ctgaggatat	agccaagatc	aagaagttca	gtaaaacccg	360
atccaaggat	atctttgacc	atctggccaa	gtcattggcc	ccaagtatcc	atgggcatga	420
ctatgtcaag	aaagcaatcc	tctgcttgct	cttg			454

<210> 28

<211> 285

<212> DNA

<213> Homo sapien

<400> 28

gaattcggca	cgagggttgg	ctgaaattca	tgcaagcttc	cgaagatctt	ctcaaggaac	60
actacgttga	octgaaggac	cgtccattct	ttgccggcct	ggtgaaatac	atgcactcag	120
ggccggtagt	tgccatggtc	tgggaggggc	tgaatgtggt	gaaaacgggc	cgagtcatgc	180
tcggggagac	caaccctgca	gactccaagc	ctgggaccat	ccgtggagac	ttctgcatac	240
aagttggcag	gaacattata	catggcagtg	attctgtgga	gagtg		285

<210> 35
 <211> 440
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(440)
 <223> n = A,T,C or G

<400> 35
 gaattcggca cgaggtttat ttgtcccccac cagaaggttg ggggtgggcgg gcctagaaca 60
 cagcgtgcgg cgggttcccg ggtggagcca gcgcagacag cgtgggtccc tgcggtcttt 120
 angcgaaggt ggagttgttc cancccacat tggcccgctg ttcattgtcg taatagttga 180
 tgtagaccct gtccgggctg atgcgcaggc gctctgccag caggccgcac agcagcttgc 240
 tgtaggagcg gttctgcgcg ccgccgatct tgccgatgct gtgcangctg canagcgcgc 300
 acggctcgct ggagccgcgg aaggccatga gctggtccgg gaccacgtgc accgctatgt 360
 actggggggg cttgccgggt gccctgcgcca nctgctgggt gagctcggag aggaaccgtc 420
 cggcacggag gcgcggggca 440

<210> 36
 <211> 373
 <212> DNA
 <213> Homo sapien

<400> 36
 gaattcggca cgaggccaaa cgtaccaaga aagtcgggat cgtcggtaaa tacgggaccc 60
 gctatggggc ctccctccgg aaaatggtga agaaaattga aatcagccag caccgcaagt 120
 acacttgctc tttctgtggc aaaaccaaga tgaagagacg agctgtgggg atctggcact 180
 gtggttctct catgaagaca gtggctggcg gtgcctggac gtacaatacc acttccgctg 240
 tcacggtaaa gtccgccatc agaagactga aggagttgaa agaccagtag acgctcctct 300
 actctttgag acatcactgg cctataataa atgggttaat ttatgtaaca aaaaaaaaaa 360
 aaaaaaactc gag 373

<210> 37
 <211> 565
 <212> DNA
 <213> Homo sapien

<400> 37
 gaattcggca cgagggggca cgggcacccc cgcggtcccc gggaggctag agatcatgga 60
 agggaagtgg ttgctgtgta tgttactggt gcttggaact gctattgttg aggctcatga 120
 tggacatgat gatgatgtga ttgatattga ggatgacctt gacgatgtca ttgaagaggt 180
 agaagactca aaaccagata ccactgctcc tccttcatct cccaaggtta cttacaaagc 240
 tccagttcca acaggggaag tatattttgc tgattctttt gacagaggaa ctctgtcagg 300
 gtggatttta tccaaagcca agaaagacga taccgatgat gaaattgcc aatatgatgg 360
 aaagtgggag gtagaggaaa tgaaggagtc aaagcttcca ggtgataaag gacttgtgtt 420
 gatgtctcgg gccaaagcat atgccatctc tgctaaactg aacaagccct tcctgtttga 480
 caccaagcct ctcttgttca gtatgaggtt aatttccaaa atggaataga atgtggtggt 540
 gctatgtga aactgctttc taaaa 565

<210> 38
 <211> 566
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(566)

<223> n = A,T,C or G

<400> 38

gaattcggca	cgagcccaac	tttagccagg	aagatcagca	ggacaccag	atttatgaga	60
agcatgacaa	ccttctacat	gggaccaaga	agaaaaagga	gaagatggtg	agtgcagcat	120
tcatgaagaa	gtacatccat	gtggccaaaa	tcatcaagcc	tgtcctgaca	caggagtcgg	180
ccacctacat	tgcagaagag	tattcacgcc	tgcgcagcca	ggatagcatg	agctcagaca	240
ccgccaggac	atctccagtt	acagcccga	caactggaaac	tctgattcga	ctggccacag	300
cccatgcgaa	ggcccgcgatg	agcaagactg	tggacctgca	ggatgcagag	gaagctgtgg	360
agttggtcca	gtatgcttac	tttaagaagg	ttctggagaa	ggagaagaaa	cgtaagaagc	420
gaagtgagga	tgaatcagag	acagaagatg	aagaggagaa	aagccaagag	gaccaggagc	480
agaagaggaa	gagaaggaag	actcgccagc	cagatgccaa	agatggggat	tcatacgacc	540
cctatgactt	cagtgcacaca	gaggan				566

<210> 39

<211> 364

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(364)

<223> n = A,T,C or G

<400> 39

gaattcggca	cgaggtctca	cagaaagtto	tccgctccca	gacatgggtc	cctcggttc	60
ctgcctcgga	agcgcagcag	caggcatcgt	gggaagggtga	agagcttccc	taaggatgac	120
ccgtccaagc	cggtccacct	cacagccttc	ctgggataca	aggctggcat	gactcacatc	180
gtgcgggaag	tcgacaggcc	gggatccaag	gtgaacaaga	aggaggtggt	ggaggctgtg	240
accattgtag	agacaccacc	catggtggtt	gtgggcattg	tgggctacgt	ggaaaccct	300
ngaggcctcc	ggacctttaa	gactgtcttt	gcttgagcac	atcantgatg	aatgcaagag	360
gcgt						364

<210> 40

<211> 336

<212> DNA

<213> Homo sapien

<400> 40

gaattcggca	cgagcccaga	tctcctaccc	agcctccag	ggggcctact	acatccctgg	60
acaggggctg	tccacatacg	ttgtcccgac	acagcagtag	cctgtgcagc	caggagcccc	120
aggcttctat	ccagggtgcaa	gccctacaga	atttgggacc	tacgctggcg	cctactatcc	180
agcccaaggg	gtgcagcagt	ttcccactgg	cgtggccccc	gccccagttt	tgatgaacca	240
gocaccccag	attgctccca	agagggagcg	taagacgata	cgaattcgag	atccaaacca	300
aggaggaaaag	gatatacag	aggagatcat	gtctgg			336

<210> 41

<211> 566

<212> DNA

<213> Homo sapien

<400> 41

gaattcggca	cgagacttgg	gaaaatgaat	tcagaggagg	aagatgaagt	gtggcagggtg	60
atcataggag	ccagagctga	gatgacttca	aaacaccaag	agtacttgaa	gctggaaaacc	120
acttggatga	ctgcagttgg	tctttcagag	atggcagcag	aagctgcata	tcaaactggc	180
gcagatcagg	cctctataac	cgccaggaat	cacattcagc	tggtgaaact	gcaggtggaa	240
gaggtgcacc	agctctcccc	gaaagcagaa	accaagctgg	cagaagcaca	gatagaagag	300
ctccgtcaga	aaacacagga	ggaaggggag	gagcgggctg	agtcggagca	ggaggcctac	360
ctgcgtgagg	attgagggcc	tgagcacact	gccctgtctc	cccactcagt	ggggaaagca	420
ggggcagatg	ccaccctgcc	cagggttggc	atgactgtct	gtgcaccgag	aagaggcggc	480
aggtcctgcc	ctgccaatca	ggcgagacgc	ctttgtgagc	tgtgagtgcc	tcctgtggtc	540
tcaggcttgc	gcttggaacct	ggttct				566

<210> 42

<211> 386

<212> DNA

<213> Homo sapien

<400> 42

gaattcggca	cgagggcagc	tcgagtccac	cagcagcgcc	gtccgcttga	ccgagatgct	60
gcgggcctgt	cagttatcgg	gtgtgaccgc	cgccgcccag	agttgtctct	gtgggaaagtt	120
tgtcctcctg	ccattgcgac	catgccgcag	atactctact	tcaggcagct	ctgggttgac	180
tactggcaaa	attgctggag	ctggcctttt	gtttgttggg	ggaggtattg	gtggcactat	240
cctatatgcc	aaatgggatt	cccatttccg	ggaaagtgtg	gagaaaacca	taccttactc	300
agacaaactc	ttcgagatgg	ttcttggtcc	tgcaagcttat	aatgttccat	tgccaaagaa	360
atcgattcaa	gtcgggtcca	ctaaaa				386

<210> 43

<211> 514

<212> DNA

<213> Homo sapien

<400> 43

gaattcggca	cgagggcaaa	acctccacct	cctgatgaat	ttcttgactg	tttccaaaag	60
tttaaacacg	gatttaacct	tctggccaaa	ctgaagtctc	atattcagaa	tcctagtgtc	120
gcagatttgg	ttcacttttt	gtttactcca	ttaaatatgg	tggtgcaggc	aacaggaggt	180
cctgaactag	ccagttcagt	acttagtccc	ctattgaata	aggacacaat	tgatttctta	240
aattatactg	tcaatggtga	tgaacggcag	ctgtggatgt	cattgggagg	aacttggatg	300
aaagccagag	cagagtggcc	aaaagaacag	tttattccac	catatgttcc	acgattccgc	360
aatggctggg	agcccccaat	gctgaacttt	atgggagcca	caatggaaca	agatctttat	420
caactggcag	aatctgtggc	aaatgtagca	gaacatcagc	gcaaacagga	aataaaaaaga	480
ttatcccaga	gcatttcagt	gtatcagaat	atta			514

<210> 44

<211> 467

<212> DNA

<213> Homo sapien

<400> 44

gaattcggca	cgagactaga	gccgcatcac	atggggactt	ctgcaaatac	agagactcgg	60
attaaaggtg	gagaagatgg	agctaaagga	actgcttatt	taatacattt	gaacaacttt	120
tggggctactt	agaaggtgct	ttgaaacctg	catttgatta	agcaagaatt	cgcttgcaag	180
ttaaggggca	ctccacagaa	ggatgttatt	atcaagtcag	atgcaccgga	cactttgtta	240

ttggagaaac	atgcagatta	tatgcgatcc	tatggctcaa	agaaagatga	ttatgaatac	300
tgtatgtctg	agtatttgag	aatgagtggc	atctattggg	gtctgacagt	aatggatctc	360
atgggacaac	ttcatcgcat	gaatagagaa	gagattctgg	catttattaa	gtcttgccaa	420
catgaatgtg	gtggaataag	tgctagtatc	ggacatgata	ctcatct		467

<210> 45
 <211> 344
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(344)
 <223> n = A,T,C or G

<400> 45	
gaattcggca	cgaggagagac
gccgaaggag	gacggaggct
tcagggactg	gactccaggc
ttctgcgcgc	cagaccgaga
gcgctggcc	gcctgcaggg
ggcctgccag	cacngtgagg
tgagggaaga	gctccgccag
ggaagccttt	gaggcactcc
ggaggatggg	gtgctctcca
cctcctgtcc	aagaaccagg
agcctcgggt	cctcagaagc
agacctcagg	agaccangat
ggtg	
	60
	120
	180
	240
	300
	344

<210> 46
 <211> 303
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 46	
gaattcggca	cgagngggaa
tttttagata	tgaggtctga
gaatttaggc	taaactgtga
gaggacaggt	tactgttaat
aaaaggaatg	taactttctc
tac	
cacaagtatg	tgccaccaca
ccatgtttgc	catgccatta
aagaatgtac	agcaaattgg
agagaacata	tgtatgtaat
cctcctttga	gaatgnaaag
	aaagaaagaa
	aaaaggatgg
	60
	120
	180
	240
	300
	303

<210> 47
 <211> 364
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(364)
 <223> n = A,T,C or G

<400> 47	
gaattcggca	cgaganatag
atcggagggg	aagtgtctct
ttcctttctc	taaagtggat
ctgttttggg	attttgtaaa
tcttctcagg	ttcagagaag
	60
	120

attcttcatg	ggaaatcaag	ttctaaaggt	ctttgcagca	agagatgatg	aggcagctgc	180
agttgcactt	tcctccctga	ttcatgcttt	ggatgactta	gacatgggtg	ccatagttcg	240
atatgcttat	gacaaaagag	ctaatacctca	agtcggcggtg	gcttttcctc	atatcaagca	300
taactatgag	tgtttagtgt	atgtgcagct	gcctttcatg	gaagacttgc	ggcaatacat	360
gttt						364

<210> 48
 <211> 284
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(284)
 <223> n = A,T,C or G

<400> 48	
gaattcggca	cgagagcagc
tctgcagcag	caacttcagg
acaggcccag	cgggagaagg
tgagacagcc	cgccaggaac
gctgcggtct	gagcagcaaa
	aagcaactga
	ganagaaagg
	gtgg
	60
	120
	180
	240
	284

<210> 49
 <211> 313
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(313)
 <223> n = A,T,C or G

<400> 49	
gaattcggca	cgagggtttat
aaaattactc	aagatattaa
ctgatgctat	ttacatttgt
gtaggccata	acttctttgc
agcatgagac	tagtcttcct
aaggagcttc	tct
	60
	120
	180
	240
	300
	313

<210> 50
 <211> 522
 <212> DNA
 <213> Homo sapien

<400> 50	
gaattcggca	cgagggacag
aaggagctgg	aaaataaata
aatgaggatc	tgcgagggtc
gagattgaga	gtttgaaagt
gaagaaggta	ctttaggact
aggttaagtg	ctttgttttc
gtttgtgttc	aaaaggaagc
	tgccaagaag
	gtaggtgaaa
	ttgaagataa
	actgaagaaa
	60
	120
	180
	240
	300
	360
	420

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gaattaaagc atcttcatca tgatgcagg ataatgagaa atgaaactga aacagcagaa    480
gagagagtgg cagagctagc aagagatttg gtggagatgg aa                      522

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<210> 51
<211> 463
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

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<400> 51
gaattcggca cgaggagcac ttcggctcct cgcgcgctcg cgtcccctcg tgcgggctcc    60
agccgcagcc tttagcttcgg ctcccggtt gggtggcgcg gccgtgccct cgttttggcc    120
tccgaacgcg gctcgaatgg caagccaaaa ttccttcggy atagaatatg atacctttgg    180
tgaactaaag gtgccaaatg ataagtatta tggcgcccg accgtgagat ctacgatgaa    240
ctttaagatt ggaggtgtga cagaacgcat gccaacccca gttattaaag cttttggcat    300
cttgaagcga gcggccgctg aagtaaacca ggattatggt cttgatccaa agattgctan    360
tgcaataatg aaggcagcag angaggtagc tgaaggtaaa ttaaatgatc attttcctct    420
cgtggtatgg cagactggat caggaactca gacaaatatg aat                      463

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<210> 52
<211> 423
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(423)
<223> n = A,T,C or G

```

```

<400> 52
gaattcggca cgagaaagcg cagccgagcc cagcgccccg cactttttctg agcagacgtc    60
cagagcagag tcagccagca tgaccgagcg ccgcgtcccc ttctcgctcc tgcggggccc    120
cagctgggac cccttcgcy actggtaccc gcatagccgc ctcttcgacc aggccttcgg    180
gctgcccccg ctgccggagg agtggtcgca gtggttaggc ggcagcagct ggccaggcta    240
cgtgcgcccc ctgccccccg ccgccatcga gagccccgca gtggccgcy ccgcctacag    300
ccgcgcgctc agccggcaac tcagcagcgg ggtctcgag atccggcaca ctgcggaccg    360
ctggcgcgty tccttgatg tcaaccactt cgccccggac gagctgacgg tcaagaccaa    420
nga                      423

```

```

<210> 53
<211> 474
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

```

```

<400> 53

```

gaattcggca	cgagggaato	tctacattgc	tggtttttcc	ttgctgctgt	ccttcctgct	60
tagacgcctg	gtgactctca	tttcgcagca	ggccacgctg	ctggcctcca	atgaagcctt	120
taaaaagcag	gcgagagagt	ctagtgaggc	ggccaagang	tacatggagg	agaatgacca	180
gctcaagaan	ggagctgctg	ttgacggagg	caagttggat	gtcgggaatg	ctgaggtgaa	240
gttggaggaa	gagaacagga	gcctgaaggc	tgacctgcag	aagctaaagg	acgagctggc	300
cagcactaag	caaaaactag	agaaagctga	aaaccagggt	ctggccatgc	ggaagcagtc	360
tgagggcctc	accaaggagt	acgaccgctt	gctggaggag	cacgcaaagc	tgcaggctgc	420
agtagatggt	cccatggaca	agaagggaaga	gtaagggcct	tccttcctcc	cctg	474

<210> 54
 <211> 473
 <212> DNA
 <213> Homo sapien

<400> 54						
gaattcggca	cgagctcgtg	ccgaatcggc	acgagggatc	ggtcgccctga	gaggtatcac	60
ctcttctggg	ctcaagatgg	acaacaagaa	gcgcctggcc	tacgccatca	tccagttcct	120
gcatgaccag	ctccggcacg	ggggcctctc	gtccgatgct	caggagagct	tggaaagtcg	180
catccagtgc	ctgggagactg	cgtttggggg	gacggtagaa	gacagtgacc	ttgcgctccc	240
tcagactctg	ccggagatat	ttgaagcggc	tgccacgggc	aaggagatgc	cgcaggacct	300
gaggagccca	gcgcgaaccc	cgccttccga	ggaggactca	gcagaggcag	agcgcctcaa	360
aaccgaagga	aacgagcaga	tgaaagtggg	aaactttgaa	gctgccgtgc	atttctacgg	420
aaaagccatc	gagctcaacc	cagccaacgc	cgtctatttc	tgcaacagaa	gcc	473

<210> 55
 <211> 365
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(365)
 <223> n = A,T,C or G

<400> 55						
gaattcggca	cgagtgattg	aggatcagtt	gggtgccaga	cactctctta	ggtgtcagag	60
ctccagttta	cattacacag	ataaggtccc	tgccccccag	cgaagctggc	attaaagtca	120
gcaaataaat	gttcaggatt	ttgataagtg	ctgtaaagga	aaaaagacct	gtaacagggt	180
ggaatgactg	gggagggggc	gaggctctat	ctaggcaggg	atggaccaga	cntgagagtg	240
accaggaggt	tcgagccagt	tgcagaggga	caagaaaggc	cttctgggca	ggggcactta	300
caggtacaga	gcccctgcag	cagaataagc	ttctcctacc	ggagaggcaa	aaagaaggcc	360
ttttg						365

<210> 56
 <211> 517
 <212> DNA
 <213> Homo sapien

<400> 56						
gaattcggca	cgagggacgc	cgctttgttg	cctgagatga	agttggagcc	cttgtttttg	60
acattggatc	ctatactgtg	agagctgggt	atgctgggtg	ggactgcccc	aaggtggatt	120
ttcctacagc	tatttggtatg	gtggtagaaa	gagatgacgg	aagcacatta	atggaaatag	180
atggcgataa	aggcaaacaa	ggcgggtccca	cctactacat	agataactaat	gctctgcgtg	240
ttccgaggga	gaatatggag	gccatttcac	ctctaaaaaa	tgggatgggt	gaagactggg	300

atagttttoca	agctattttg	gatcatacct	acaaaatgca	tgtcaaatca	gaagccagtc	360
tccatcctgt	tctcatgtca	gaggcaccgt	ggaatactag	agcaaagaga	gagaaactga	420
cagagttaat	gtttgaacac	tacaacatcc	ctgccttctt	cctttgcaaa	actgcagttt	480
tgacagcatt	tgctaattgt	ccgttctact	gggcttg			517

<210> 57
 <211> 237
 <212> DNA
 <213> Homo sapien

<400> 57	
gaattcggca	cgagctatga gatagtatta agcaattaaa agaatatatg acttttctac 60
atcaaaattt	gaaacttctg tgcatacaag gacacaatca acagagtga gaggaactt 120
acagaatggg	agaaaatatt tgtaaatcat gtatctcata aggattaata tccaggctat 180
gtaaagaact	acatctcaac acaaaaacac aaacagcttg attaaaaaat gggcaaa 237

<210> 58
 <211> 485
 <212> DNA
 <213> Homo sapien

<400> 58		
gaattcggca	cgagcgcggc ggtcactgcg ccggggtagt gggccccagt gttgcgctct 60	
ctggccgttc	cttacacttt gcttcaggct ccagtgcagg ggcgtagtgg gatatggcca 120	
actcgggctg	caaggacgtc acgggtccag atgaggagag ttttctgtac ttgcctacg 180	
gcagcaacct	gctgacagag aggatccacc tccgaaaccc ctccggcggg ttcttctgtg 240	
tggccgcct	gcaggatttt aagcttgact ttggcaattc ccaaggcaaa acaagtcaaa 300	
cttggcatgg	agggatagcc accatttttc agagtcctgg cgatgaagtg tggggagtag 360	
tatggaaaat	gaacaaaagc aattttaaatt ctctggatga gcaagaagg gttaaaagtg 420	
gaaatgtatg	ttgtaataga agttaaaagt tgccaacttc aagaaaggaa aaaaaaata 480	
acctg		485

<210> 59
 <211> 514
 <212> DNA
 <213> Homo sapien

<400> 59		
gaattcggca	cgagtggcgt tggaggctcg cgatatggaa gatgggcagc tttccgactc 60	
ggattccgac	atgacggtcg caaccagcga caggccgctg caattgccaa aagtgtagg 120	
tggcgacagt	gctatgaggg ccttccagaa cacggcaact gcatgtgcac cagtatcaca 180	
ttatcgagct	gttgaaagtg tggattcaag tgaagaaagt ttttctgatt cagatgatga 240	
tagctgtctt	tggaaacgca aacgacagaa atgttttaac cctcctccca aaccagagcc 300	
ttttcagttt	ggccagagca gtcagaaacc acctgttgct ggaggaaaga agattaacaa 360	
catatggggg	gctgtgctgc aggaacagaa tcaagatgca gtggccactg aacttggtat 420	
cttgggaatg	gagggcacta ttgacagaag cagacaatcc gagacctaca attatttgct 480	
tgccaagaaa	cttaggaagg aatctcaaga gcat	514

<210> 60
 <211> 336
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(336)
 <223> n = A,T,C or G

<400> 60
 gaattcggca cgaggccgcc ggggtgctggt caccggggca ggcaaaggta tagggcgcg 60
 cacgggtccag gcgctgcacg cgacggggcg gcgggtgggt gctgtgagcc ggactcaggc 120
 ggatcttgac agccttgctc gcgagtggcc ggggatagaa cccgtgtgcy tggacctggg 180
 tgactgggag gccaccgagc gggcgctggg cagcgtgggc cccgtggacc tgctggtgaa 240
 caacgcgcgt gtgcgcctgc tgcagccctt nctggaggtc accaaggagg cctttgacag 300
 atcctttgag gtgaacctgc gtgcggtcat ccaggt 336

<210> 61
 <211> 515
 <212> DNA
 <213> Homo sapien

<400> 61
 gaattcggca cgaggtcgcc tgagaggtat cacctcttct gggctcaaga tggacaacaa 60
 gaagcgcttg gcctacgcca tcatccagtt cctgcatgac cagctccggc acgggggcct 120
 ctgctccgat gctcaggaga gcttggaagt cgccatccag tgccctggaga ctgcgtttgg 180
 ggtgacggta gaagacagtg accttgcgct ccctcagact ctgccggaga tatttgaagc 240
 ggctgccacg ggcaaggaga tgccgcagga cctgaggagc ccagcgcgaa ccccgccctc 300
 cgaggaggac tcagcagagg cagagcgctt caaaaccgaa ggaaacgagc agatgaaagt 360
 ggaaaacttt gaagctgccg tgcatttcta cggaaaagcc atcgagctca acccagccaa 420
 cgccgtctat ttctgcaaca gagccgcagc ctacagcaaa ctcggaact acgcaggcgc 480
 ggtgcaggac tgtgagcggg ccactctgat tgacc 515

<210> 62
 <211> 417
 <212> DNA
 <213> Homo sapien

<400> 62
 gaattcggca cgagagccaa cctcctggaa gggcacgcgc gtgctgaggt gtacccttca 60
 gccaagccaa tgatcaaatt ccaatcacc cctgaggaac agttggaaca gcagagactg 120
 gcagtgcagc aggtggagga ggccagcag ctgcgggaac accaggaagc tttgcaccag 180
 cagaggctgc aggggcactt actacggcag caggaacagc agcagcagca ggtggcaaga 240
 gagatggccc tgcagaggca ggctgagctt gaggagggcc ggccgcagca ccaggagcag 300
 ctccggcagc aagctcatta tgatgctatg gataatgata tcgttcaggg agcagaggac 360
 cagggaatcc aaggagagga aggagcctat gaaagagaca accagcacca agatgaa 417

<210> 63
 <211> 455
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(455)
 <223> n = A,T,C or G

<400> 63
 gaattcggca cgagggccgg gcttgggctg cgtggagaat actttttgcy atgcctactg 60

gagactttga	ttcgaagccc	agttgggccc	accaggtgga	ggaggagggg	gaggacgaca	120
aatgtgtcac	cagcgagctc	ctcaagggga	tccctctggc	cacaggtgac	accagcccag	180
agccagantc	actgccggga	gctccactgc	cgccctccaa	ggaggtcatc	aacggaaaca	240
taaagacagt	gacagagtac	aagatagatg	aggatggcaa	gaagttcaag	attgtccgca	300
ccttcaggat	tgagaccogg	aaggcttcaa	aggctgtcgc	aaggagggaag	aactggaaga	360
agttcgggaa	ctcagagttt	gacccccccg	gacccaatgt	ggccaccacc	actgtcagtg	420
acgatgtctc	tatgacgttc	atcaccagca	aagag			455

<210> 64
 <211> 517
 <212> DNA
 <213> Homo sapien

<400> 64						
gaattcggca	cgagccatgt	tgggggtttgt	gggtcgggtg	gccgctgctc	cgccctccgg	60
ggccttgcgg	agactcacc	cttcagcgtc	gctgcccaca	gctcagctct	tactgcgggc	120
cgctccgacg	gcggtccatc	ctgtcaggga	ctatgcggcg	caaacatctc	cttcgccaaa	180
agcaggcgcc	gccaccgggc	gcatcgtggc	ggtcattggc	gcagtgggtg	acgtccagtt	240
tgatgaggga	ctaccaccaa	ttctaaatgc	cctggaagtg	caaggcaggg	agaccagact	300
ggttttggag	gtggcccagc	atgtgggtga	gagcacagta	aggactattg	ctatggatgg	360
tacagaaggc	ttggtttagag	gccagaaagt	actggattct	ggtgcaccaa	tcaaaattcc	420
tgttggtcct	gagacttttg	gcagaatcat	gaatgtcatt	ggagaaccta	ttgatgaaag	480
aggtcccatc	aaaaccaaac	aatttgctcc	cattcat			517

<210> 65
 <211> 519
 <212> DNA
 <213> Homo sapien

<400> 65						
gaattcggca	cgagtggagg	tccggcgatat	ggaagatggg	cagctttccg	actcggattc	60
cgacatgacg	gtcgcaccca	gcgacaggcc	gctgcaattg	ccaaaagtgc	taggtggcga	120
cagtgtctatg	agggccttcc	agaacacggc	aactgcatgt	gcaccagtat	cacattatcg	180
agctgttgaa	agtgtggatt	caagtgaaga	aagtttttct	gattcagatg	atgatagctg	240
tctttggaaa	cgcaaacgac	agaaatgttt	taaccctcct	cccaaaccag	agccttttca	300
gtttggccag	agcagtcaga	aaccacctgt	tgctggagga	aagaagatta	acaacatatg	360
gggtgctgtg	ctgcaggaac	agaatcaaga	tgcatgggcc	actgaacttg	gtatcttggg	420
aatggagggc	actattgaca	gaagcagaca	atccgagacc	tacaattatt	tgcttgccaa	480
gaaacttagg	aaggaatctc	aagagcattc	caaaagatc			519

<210> 66
 <211> 517
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(517)
 <223> n = A,T,C or G

<400> 66						
gaattcggca	cgaggggcgg	tgaggaaagc	aggaggaggt	ggcggcggcg	ggaagatggc	60
tccttcacct	accaaacgca	aagaccgctc	agatgagaag	tccaaggatc	gctcaaaaga	120
taaagggggc	accaaggagt	cgagtgaaga	ggatcgcggc	cgggacaaaa	cccgaagag	180

gcgcagcgct	tccagtggta	gcagcagtag	caggtctcgg	tccagctcga	cttcagctc	240
aggctccagc	accagcactg	gctcaagcag	tggtccagc	tcttcctcag	catccagccg	300
ctcaggaagc	tccagcacct	cccgcagctc	cagctctagc	agctcttctg	gctctccaag	360
tccttctcgg	cgcanacacg	acaacaggag	gcgctccgc	tccaaatcca	aaccacctaa	420
aagagatgaa	aaggagagga	aaaggcggag	cccctctcct	aagcccacca	aagtgcacat	480
tgggagactc	acccggaatg	tgacaaagga	tcacatc			517

<210> 67
 <211> 517
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(517)
 <223> n = A,T,C or G

<400> 67	gaattcggca	cgaggcgccg	tgcagcggct	gagtgtnnngc	ggcggcgacg	gcaaaccggg	60
	agctgccggc	cgggcgcgcg	gaggaggacg	cggtgtcggg	ctaggaaacg	gagctgcggg	120
	cggaggctcc	atgttgggaa	gcggcgccgt	tcgtgcttgt	tagcgggaat	ccgggagccg	180
	cggggtgagc	tggcgggggc	cgggccctaa	gtgaagatgg	aggccccgt	gcggcctgcc	240
	gcggacatcc	tgaggcggaa	cccgcagcag	gactacgaac	tcgtccagag	ggtcggcagc	300
	ggcacctacg	gggacgtcta	taaggccaga	aatgtacaca	caggagagct	ggctgcagta	360
	aaaatcatta	aattggagcc	tggagatgat	ttttctttga	ttcaacaaga	aatatttatg	420
	gttaaagaat	gtaaacattg	taacatcggt	gcctactttg	ggagttatct	tagtcgggaa	480
	aaactatgga	tttgtatgga	atactgtggg	ggcggat			517

<210> 68
 <211> 516
 <212> DNA
 <213> Homo sapien

<400> 68	gaattcggca	cgaggtcggg	tcctgtctatt	ccggtttctc	cactccgtcc	cccgcgggtc	60
	tgctctgtgt	gccatggacg	gcattgtccc	agatatagcc	gttggtagaa	agcggggatc	120
	tgacgagctt	ttctctactt	gtgtcactaa	cggaccgttt	atcatgagca	gcaactcggc	180
	ttctgcagca	aacggaaatg	acagcaagaa	gttcaaaggt	gacagccgaa	gtgcaggcgt	240
	cccctctaga	gtgatccaca	tccggaagct	ccccatcgac	gtcacggagg	gggaagtcac	300
	ctccctgggg	ctgccctttg	ggaaggtcac	caacctcctg	atgctgaagg	ggaaaaacca	360
	ggccttcacg	gagatgaaca	cggaggaggc	tgccaacacc	atggtgaact	actacacctc	420
	ggtgaccctc	gtgctgcgcg	gccagcccat	ctacatccag	ttctccaacc	acaaggagct	480
	gaagaccgac	agctctccca	accaggcgcg	ggccca			516

<210> 69
 <211> 455
 <212> DNA
 <213> Homo sapien

<400> 69	gaattcggca	cgaggagcca	tagagcctct	gcctcgatgc	cgttttgccc	ccgctctttg	60
	gacacgccga	cccggcgctc	cccaagggaat	gctgtcccaa	caagattccc	gtgaaagagc	120
	acccgtgtcg	cccctcccgc	tggacttctg	tgccgccccg	tccacacctg	ttcttgggtg	180
	catgtgggtt	ttcggttcct	ggcgggtccag	gacggggcgg	gggctccctc	cccatctcgt	240

gctgggaggt	ctcagcgcgc	tctcctgtcc	ctgggacgtg	cgtctctcct	tctcatgccg	300
ttctggaaaa	tgctcttgct	gtagagagca	gctgcttctg	ccaggggtgt	ggaggtgggtg	360
gagcgccttc	cgattccatt	catggcattt	tgtgatgtga	tgtaattgga	atagagctgt	420
tgatttaagg	caaaaaaaaa	aaaaaaaaaac	tcgag			455

<210> 70
 <211> 569
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(569)
 <223> n = A,T,C or G

<400> 70						
gaattcggca	cgagcagaac	gcagctctgc	tctgctngag	gaggtgcaga	gcctccggga	60
ggaggctgag	aaacagcggg	tggcttcaga	gaacctgcgg	caggagctga	cctcacaggc	120
tgagcgtgcg	gaggagctgg	gccaagaatt	gaaggcgtgg	caggagaagt	tcttccagaa	180
agagcaggcc	ctctccaccc	tgcagctcga	gcacaccagc	acacaggccc	tggtgagtga	240
gctgctgcc	gctaagcacc	tctgccagca	gctgcaggcc	gagcaggccg	ctgccgagaa	300
acgccaccgt	gaggagctgg	agcagagcaa	gcaggccgct	gggggactgc	gggcagagct	360
gctgcggggc	cagcggggagc	ttggggagct	gattcctctg	cggcagaagg	tggcagagca	420
ggagcgaaca	gctcagcagc	tcggggcaga	gaaggccagc	tatgcagagc	agctgagcat	480
gctgaagaag	gcgcattggc	tgctggcaga	ggagaaccgg	gggctgggtg	agcggggcaa	540
ccttggccgg	cagtttcttg	aagtggagt				569

<210> 71
 <211> 555
 <212> DNA
 <213> Homo sapien

<400> 71						
gaattcggca	cgagtggcga	cgccccctaa	gcggcgggcg	gtggaggcca	cgggggagaa	60
agtgtctgcg	tacgagacct	tcattcagtga	cgtgctgcag	cgggacttgc	gaaaggtgct	120
ggaccatcga	gacaaggtat	atgagcagct	ggccaaatac	cttcaactga	gaaatgtcat	180
tgagcgactc	caggaagcta	agcactcgga	gttatatatg	caggtggatt	tgggctgtaa	240
cttcttcggt	gacacagtgg	tcccagatac	ttcacgcatac	tatgtggccc	tgggatattg	300
ttttttcctg	gagttgacac	tggcagaagc	tctcaagttc	attgatcgta	agagctctct	360
cctcacagag	ctcagcaaca	gcctcaccaa	ggactccatg	aatatcaaag	cccatatcca	420
catgttgcta	gaggggctta	gagaactaca	aggcctgcag	aatttcccag	agaagcctca	480
ccattgactt	cttcccccca	tctcagaca	ttaaagagcc	tgaatgccaa	aaaaaaaaaa	540
aaaaaaaaaac	tcgag					555

<210> 72
 <211> 567
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(567)
 <223> n = A,T,C or G

<400> 72
gaattcggca cgagggctgg tggagttggt agtgnctat ggcaacacct tctttgtggt 60
tctcattgtc atccttgtgc tgttggtcat cgatgccgtg cgcgaaattc ggaagtatga 120
tgatgtgacg gaaaaggtga acctccagaa caatcccggg gccatggagc acttccacat 180
gaagcttttc cgtgcccgaga ggaatctcta cattgctggc ttttccttgc tgetgtcctt 240
cctgcttaga cgctggtga ctctcatttc gcagcaggcc acgctgctgg cctccaatga 300
agcctttaa aagcaggcgg agagtgtag tgaggcggcc aagaagtaca tggaggagaa 360
tgaccagctc aagaaggag ctgctgttga cggaggcaag ttgatgtcg ggaatgctga 420
ggtgaagttg gaggaagaga acaggagcct gaaggctgac ctgcagaagc taaaggacga 480
gctggccagc actaagcaaa aactagagaa agctgaaaac caggttctgg ccatgcggaa 540
gcagtctgag ggcctcacca aggagta 567

<210> 73
<211> 254
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(254)
<223> n = A,T,C or G

<400> 73
gaattcggca cgagcctgga caaggagaga gtgcgntgc tgagagccga gccagcaat 60
cccgatccctc tgagtcgtga agaagggagg cagcgagggg gttggggtg gggcctgagg 120
caagcccccga ggctccgctc ttgccagagg gacaggagcc atggctcaga aaatggactg 180
tgggtgaggc ctctcggctc tccaggctga ggctccgta gaagacagcg ccttgcttat 240
gcagaccttg atgg 254

<210> 74
<211> 516
<212> DNA
<213> Homo sapien

<400> 74
gaattcggca cgagcagccc tcggctgagc cgcgccgcac catgcccgcc gtggacaagc 60
tctgtctaga ggaggcgttg caggacagcc cccagactcg ctctttactg agcgtgtttg 120
aagaagatgc tggcaccctc acagactata ccaaccagct gctccaggca atgcagcgcg 180
tctatggagc ccagaatgag atgtgcctgg ccacacaaca gctttctaag caactgctgg 240
catatgaaaa acagaacttt gctcttgcca aaggtgatga agaagtaatt tcaaacactcc 300
actatttttc caaagtgggt gatgagctta atcttctcca tacagagctg gctaaacagt 360
tggcagacac aatggttcta cctatcatat aattccgaga aaaggatctc acagaagtaa 420
gcacttttaa ggcattatgt ggactcgcta gcaatgagca tgacctctca atggcaaaat 480
acagcaggct gcctaagaaa aaggagaatg agaagg 516

<210> 75
<211> 468
<212> DNA
<213> Homo sapien

<400> 75
gaattcggca cgagcagggg cgacgccagc aatgggagct gactgatatg gtggtgtggg 60
tgactggagc ctcgagtga attggtgagg agctggctta ccagttgtct aaactaggag 120
tttctcttgt gctgtcagcc agaagagtgc atgagctgga aagggtgaaa agaagatgcc 180

tagagaatgg	caatttaaaa	gaaaaagata	tacttgtttt	gccccttgac	ctgaccgaca	240
ctgggtccca	tgaagcggct	accaaagctg	ttctccagga	gtttggtaga	atcgacattc	300
tggtcaacaa	tggtggaatg	tcccagcggt	ctctgtgcat	ggataccagc	ttggatgtct	360
acagaaagct	aatagagctt	aactacttag	ggacggtgtc	cttgacaaaa	tgtgttctgc	420
ctcacatgat	cgagaggaag	caaggaaaga	ttgttacttg	tgaatagc		468

<210> 76
 <211> 349
 <212> DNA
 <213> Homo sapien

<400> 76						
gaattcggca	cgagctcgac	tcttagcttg	tcggggacgg	taaccgggac	ccggtgtctg	60
ctcctgtcgc	cttcgcctcc	taateccctag	ccactatgcg	tgagtgcata	tccatccaag	120
ttggccaggc	tggtgtccag	attggcaatg	cctgctggga	gctctactgc	ctggaacacg	180
gcattccagcc	cgatggccag	atgccaaagt	acaagaccat	tgggggagga	gatgactcct	240
tcaacacctt	cttcagttag	acgggcgctg	gcaagcacgt	gccccgggct	gtgtttgtag	300
acttgaacc	cacagtcatt	gatgaagttc	gcactggcac	ctaccgcca		349

<210> 77
 <211> 469
 <212> DNA
 <213> Homo sapien

<400> 77						
ataggcacat	acacatacac	agtctcagca	aggttataaa	gaaccctgtc	agggtccactt	60
gcaacatggc	cttgctactt	ggattagctc	ctttaagcct	gaaaataact	ttcctgggtca	120
tggaagaact	ggacgcattc	tttaacttat	gaaatagaag	ttgaacttga	aaactctttt	180
taaaaaatcc	tggttttgca	ggacagctac	ataatgaatg	tatatattaa	gactgtagct	240
gaattgcaca	tgaaatcaga	ttgccaaact	cttgactttc	aatgttagac	atttatcctt	300
aagttgtgag	cgatatatgt	agcatgctgt	gaaatgtctg	ttatagctct	ttaattcatc	360
agtattaata	cagaattatc	atttgcgttt	cttgggtact	tttattcaat	gtaatcagaa	420
gctgtgatgt	tttgcctttg	tagtcctgtg	ctttgggtact	gtaattttt		469

<210> 78
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 78						
gcgctcgggt	tgagggctcg	gcgcgggggt	tctgttctct	tcttctgcgc	ggctgcagct	60
cgggacttcg	gcctgaccca	gcccccatgg	cttcagaaga	gctacagaaa	gatctagaag	120
aggtaaagg	gttgctggaa	aaggctacta	ggaaaagagt	acgtgatgcc	cttacagctg	180
aaaaatccaa	gattgagaca	gaaatcaaga	acaagatgca	acagaaatca	cagaagaaag	240
canaacttct	tgataatgaa	aaaccagctg	ctgtgggttc	tccattaca	acgggctata	300
cggtgaaaat	cagtaattat	ggatggggtc	aagtcagata	agtttgtgaa	aatctacatt	360
accttaactg	gagttcatca	agttcccatc	gagaatgtg			399

<210> 79

<211> 439
 <212> DNA
 <213> Homo sapien

<400> 79
 ccgagaagct gggctttgct ggtcttgtag aggagatctc atttgggaca actaaggata 60
 aaatgctggt catcgagcag tgtaagaact ccagagctgt aaccattttt attagaggag 120
 gaaataagat gatcattgag gaggcgaaac gatcccttca cgatgctttg tgtgtcatcc 180
 ggaacctcat ccgcgataat cgtgtggtgt atggaggagg ggctgctgag atatcctgtg 240
 ccctggcagt tagccaagag gcggataagt gcccacatt agaacagtat gccatgagag 300
 cgtttgccga cgcactggag gtcaccccca tggccctctc tgaaaacagt ggcatgaatc 360
 ccatccagac tatgaccgaa gtccgagcca gacaggtgaa ggagatgaac cctgctcttg 420
 gcatcgactg tttgcacaa 439

<210> 80
 <211> 437
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (437)
 <223> n = A,T,C or G

<400> 80
 aattaacatc ttttttgttt aggcattgtc aattaatgct gtagctatca tagctntgct 60
 cttacctgaa gccttgctcc caccacacag gacagccttc ctctgaaga gaatgtcttt 120
 gtgtgtccga agttgagatg gcctgcccta ctgccaaaga ggtgacagga aggcgtgggag 180
 cagctttggt aaattgtggt cagttctggt acacagtgcg ttgccctttg ttgggggtat 240
 gcatgtatga acacacatgc ttgtcggaac gctttctcgg cgtttgctcc ttggtctca 300
 tctccccat tctgtgcct actttgcctg agttcttcta ccccgagcag tgccagccac 360
 attgggagtc tgtttgttcc agtgggggtg agctgtcttt gtcgtggaga tcttggaaact 420
 ttgcacatgt cactact 437

<210> 81
 <211> 472
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (472)
 <223> n = A,T,C or G

<400> 81
 atattttant aatgcagagc tatagtctca attgttactt tataagggtg ttttattaac 60
 aaacccaaat cctggatttt cctgtctttg ctgtattttg aaaaacacgt gttgactcca 120
 ttgtttttaca tgtagcaaag tctgccatct gtgtctgctg tattataaac agataagcag 180
 cctacaagat aactgtatct ataaaccact ctccaacagc tggctccagt gctggtttta 240
 gaacaagaat gaagtcattt tggagtcctt catgtctaaa agatttaagt taaaaacaaa 300
 gtgttacttg gaaggtttag ttctatcatt ctggatagat tacagatata ataaccatgt 360
 tgactatggg ggagagacgc tgcattccag aaacgtctta acacttgagt gaatcttcaa 420
 aggaccctga cattaaatgc tgaggcttta atacacacat attttatccc aa 472

<210> 82
 <211> 448
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(448)
 <223> n = A,T,C or G

<400> 82
 gttcagtgt ggcctcagag ctcttgctgt tagctggcag ctgacgctgc taggatagtt 60
 agtttgaaa tggtaactca taataaacta cacaaggaaa gtcagccacc gtgtcttatg 120
 aggaattgga cctaataaat tttagtgtgc cttccaaacc tgagaatata tgcttttgga 180
 agttaaatt taaatggctt ttgccacata catagatctt catgatgtgt gagtgttaatt 240
 ccatgtggat atcagttacc aaacattaca aaaaaatttt atggcccaaa atgaccaacg 300
 aaattgttac aatagaattt atccaatttt gatcttttta tattcttcta ccacacctgg 360
 aaacagacca atagacattt tggggtttta taatgggcat ttgtataaag cattactctt 420
 tttcaataaa ttgtttttta atttaaaa 448

<210> 83
 <211> 270
 <212> DNA
 <213> Homo sapien

<400> 83
 cagtgtggtg gaattaatca ggctcccaa atttagcagg tgctggggag gaccctaggg 60
 agtggtttat gggggctagc tggtgaaact gccctttcct ttctgttcta tgagtgtgat 120
 ggtgtttgag aaaatgtggg gctatggttc aggcgcactt cacatgtgca aagatggaga 180
 aagcactcac ctacacgttt aggctcagaa tattgattga aacattttga atgatcaaaa 240
 ataaaatgtt atttttaaag tttcaaaaaa 270

<210> 84
 <211> 359
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(359)
 <223> n = A,T,C or G

<400> 84
 tccaaagtta gacaaaatgc caggaatgtt cttctctgct aacccaaagg aattgaaagg 60
 aaccactcat tcacttctag acgacaaaat gcaaaaaagg aggccaaaga cttttggaat 120
 ggatatgaaa gcatacctga gatctatgat cccacatctg gaatctggaa tgaaatcttc 180
 caagtccaag gatgtacttt ctgctgctga agtaatgcaa tggctcfaat ctctggaaaa 240
 acttcttgcc aaccaaactg gtcaaaatgt ctttggaagt ttccctaaant ctgaattcag 300
 tgaggagaat attgagttct ggctggcttg tgaanactat aagaaaacag agtctgac 359

<210> 85
 <211> 371
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(371)
 <223> n = A,T,C or G

<400> 85
 ctgcagcccg ggggatccac tagtcnntg tgggtggaatt cagcctacag ccgcctgggt 60
 ctgtatccag cgccaggtcc cgccagtccc agctgcgcgc gccccccagt cccgcacccg 120
 ttccgcccag gctaagttag cccctacccat gccggtcaaa ggaggcacca agtgcacaa 180
 atacctgctg ttccgattta acttcatctt ctggcttgcc gggattgctg tccttgccat 240
 tggactatgg ctccgattcg actctcagac caagagcatc ttcgagcaag aaactaataa 300
 taataattcc agcttctaca caggagtcta tattctgata cggagccggc gccctcatga 360
 tgettgggtg g 371

<210> 86
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 86
 ctgcagcccg ggggatccac tagtttnta tgatcattaa actcattctc agggttaaga 60
 aaggaatgta aatttctgcc tcaatttgta cttcatcaat aagtttttga agagtgcaga 120
 ttttttagtca ggtcttaaaa ataaactcac aaatctggat gcatttctaa attctgcaaa 180
 tgtttcctgg ggtgacttaa caaggaataa tcccacaata tacctagcta cctaatacat 240
 ggagctgggg ctcaaccacac tgtttttaag gatttgcgct aacttggggc tgaggaaaaa 300
 taagtagtnc gaggaagtag tttttaaatg tgagcttata gatanaaaca gaatatcaac 360
 ttaattatga aattgttaga acctgttctc ttgtatctga atctgattgc aattactatt 420
 gtactgatag actccagcca ttgcaagtct cagatatctt agctgtgtag tgattcttga 480
 aattcttttt aagaaaaatt 500

<210> 87
 <211> 550
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(550)
 <223> n = A,T,C or G

<400> 87
 ctgcagcccg ggggatccac tagtccantg tgggtggaatt ccaggaactg gaccagggnnc 60
 tggagcggat ctccaccatg cgccctcccg atgagcgggg ccctctggag cacctctact 120
 ccctgcacat ccccaactgt gacaagcatg gcctgtacaa cctcaaacag tgcaagatgt 180
 ctctgaacgg gcagcgtggg gagtgcctgg gtgtgaacct caacaccggg aagctgatcc 240
 agggagcccc caccatccgg ggggaccccg agtgtcatct cttctacaat gagcagcagg 300
 aggcctgcgg ggtgcacacc cagcggatgc agtagaccgc agccagccgg tgccctggcg 360
 ccctgcccc cgcccctctc caaacaccgg cagaaaacgg agagtgctt ggtggtgggt 420


```

gctggaggat tttccagttc tgacacacgt atttatattt ggaaagagac cagcaccgag      480
ctcggcacct ccccggcctc tctcttccca ngctgcagat gccacacctg ctcttcttg      540
ctttcccggg                                     550

```

```

<210> 88
<211> 429
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(429)
<223> n = A,T,C or G

```

```

<400> 88
gggaccagac tcgtctcagg ccanttgcag ctttctcagc caaacgccga ccaaggaaaa      60
ctcactacca tgagaattgc agtgatttgc ttttgcttcc taggcatcac ctgtgccata      120
ccagttaaac aggtctgattc tggaagttct gaggaaaagc agctttacaa caaataccca      180
gatgctgtgg ccacatggct aaaccctgac ccattctcaga agcagaatct cctagcccca      240
cagaatgctg tgtcctctga agaaaccaat gactttaaac aagagaccct tccaagtaag      300
tccaacnaaa gccatgacca catggatgat atggatgatg aagatgatga tgaccatgtg      360
gacagccagg actccattga ctcgaacnac tctgatgatg tanatgacac tgatgattct      420
caccagtct                                     429

```

```

<210> 89
<211> 477
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

```

```

<400> 89
ttttaattta caccaagaac ttctcaataa aagaaaatca tgaatgctcc acaatttcaa      60
cataccacaa gagaagttaa tttcttaaca ttgtgttcta tgattatttg taagaccttc      120
accaagtctt gatattcttt aaagacatag ttcaaaattg cttttgaaaa tctgtattct      180
tgaaaatata cttgtttgtg attaggtttt taaataccag ctaaaggatt acctcaactga      240
gtcatcagggt acctccttat tcagctcccc aagatgatgt gtttttgott accctaagag      300
aggntttctt cttattttta gataattcaa gngcttagat aaattatgtt ttctttaagt      360
gtttatggta aactctttta aagaaaatth aatatgttat agctgaatct ttttggtaac      420
tttaaattct tatcatagac tctgtacata tgttcaaatt agctgcttgc ctgatgt       477

```

```

<210> 90
<211> 310
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 90
ctgcagcccg ggggatccac tagtcanttt attgacacta tttgaaactt ttgaaatata      60
aacggagagg ctttctgttg agacattgtc accaaaacaa ttttttgaaa tgttcctgaa      120
actaatttgg gtttaaagat taaaagggtt gttaccattc ttatctgagt agttgggagg      180
aggggaatac cactttagtt catttggaag atatagacat atttcttttg ctttctttaa      240
acagcttaaa atgatgaact tttataattt taatttgaag attgaataaa ttttttttat      300
aaagataaaa                                     310

```

```

<210> 91
<211> 532
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(532)
<223> n = A,T,C or G

```

```

<400> 91
ctgcagcccg ggggatccac tagtcatgat gtgtgttgta ttttaaaaat tatctgcaac      60
cttaattcag ctgaagtact ttatatattca aaagaatgaa taacattgat aataaaatcg      120
ctactttaag gggtttgtcc aaaataaata ttgtggcctt atatatcaca ctattgtaga      180
aagtattatt taatttaaatt ggatgcagggt tgtctactaa agaaagatta tatataacta      240
tgctaattgt tcataatcaa cagaaaccaa gatagagcta caaactcagc tgtacagttc      300
gtacactaaa ctcttcttgc ttttgcatta taaggaaatta agtctccgat tattagggtga      360
tcaccctgga tgatcagttt tctgtctgaag gcaacctactc agtatctttt cctctttatc      420
actctgcatt ggtgaattta atcctctcct ttgtgttcaa cttttgtgtg cttttaaaat      480
cagctttatt ctaaagcaaa tctgtgtcta ctttaaaaaa ctgnaaatgg aa          532

```

```

<210> 92
<211> 608
<212> DNA
<213> Homo sapien

```

```

<400> 92
cactactgtc ttctccttgt agctaatacaa tcaatattct tcccttgccct gtgggcagtg      60
gagagtgtcg ctgggtgtac gctgcacctg cccactgagt tggggaaaga ggataatcag      120
tgagcactgt tctgctcaga gctcctgatc taccacaccc cctaggatcc aggactgggt      180
caaagctgca tgaaccaggg cctgtggcagc aaactgggaa tggctggagg tgggagagaa      240
cctgacttct ctttccctct cctcctcca acattactgg aactctatcc tgttaggata      300
ttctgagctt gtttccctgc tgggtgggac agaggacaaa ggagaaggga gggctctagaa      360
gaggcagccc ttctttgtcc tctggggtaa atgagcttga cctagagtaa atggagagac      420
caaaagcctc tgatttttaa tttccataaa atgttagaag tatatatata catatatata      480
tttcttttaa tttttgagtc tttgatatgt ctaaaaatcc attccctctg cctgaagcc      540
tgagtgagac acatgaagaa aactgtgttt catttaaaga tgtaatttaa atgattgaaa      600
cttgaaaa                                     608

```

```

<210> 93
<211> 519
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(519)

<223> n = A,T,C or G

<400> 93

ctgcagcccg	ggggatccac	tagtccagtg	tggtggaatt	ctaaagaagt	aggtgctgca	60
cacaaatatg	taaagcaatt	gtaggaaatt	tgaaggaaa	aaaagaaacc	gaagccagta	120
ttttaataat	tgctttttct	gtgtattttg	tattgggctg	ggggatagca	tcaaagggtg	180
aactttttga	gcttttctatg	aaaaacccca	ggaccttctt	tctttggcca	tttctatgga	240
aatgcgatgt	cagatggatg	gtaatgggtg	cctccagtg	ctgtgagacc	tcattgogca	300
ttgtctactg	gagcttttagt	cttctgagac	ggaggaaaac	tgctgaatac	tctggattca	360
tctatgtcta	caatgttgca	tttatgaaaa	actacactgn	gctaggcgca	ttctaggaca	420
tgaatatgac	cacaccctct	ttcacgggt	gtttctgtag	caagttttca	tattcttttc	480
aaacaatggt	ttctctgcgt	taattattga	ggaaaaaaa			519

<210> 94

<211> 569

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(569)

<223> n = A,T,C or G

<400> 94

ctgcagcccg	ggggatccac	tagtccantg	tggtggaatt	cgtctgcgag	ccaggattcc	60
cgatccagag	acaatggccc	cgatgggatg	gagcccgaa	gcgtcatcga	gagtaactgg	120
aatgagattg	ttgacagctt	tgatgacatg	aacctctcgg	agtccttctt	cogtggcatc	180
tacgcctatg	gttttgagaa	gccctctgcc	atccagcagc	gagccattct	accttgatc	240
aagggttatg	atgtgattgc	tcaagcccaa	tctgggactg	ggaaaacggc	cacatttgcc	300
atatcgattc	tgcagcagat	tgaattagat	ctnaaagcca	cccaggcctt	ggtcctagca	360
cccactcgag	aattggctca	gcagatacag	aagtggtcn	tggcactagg	agactacatg	420
ggcgccctcct	gtcacgcctg	tatcgggggc	accaacgtgc	gtgctgaggt	gcagaaactg	480
cagatggaag	ctccccacat	catcgtgggt	acccttggcc	gtgtgtttga	tatgcttaac	540
cggagatacc	tgtcccccaa	atacatcaa				569

<210> 95

<211> 260

<212> DNA

<213> Homo sapien

<400> 95

gacaagctcc	tggtcttgag	atgtcttctc	gttaaggaga	tgggcctttt	ggaggtaaag	60
gataaaatga	atgagttctg	tcatgattca	ctattctaga	acttgcatga	cctttactgt	120
gttagctctt	tgaatgttct	tgaattttta	gactttcttt	gtaaacaaat	gatatgtcct	180
tatcattgta	taaaagctgt	tatgtgcaac	agtgtggaga	ttccttgtct	gatttaataa	240
aatacttaaa	cactgaaaaa					260

<210> 96

<211> 438

<212> DNA

<213> Homo sapien

<400> 96

atttctcttt	agttctttgc	aagaaggtag	agataaagac	actttttcaa	aatggcaat	60
ggtatcagaa	ttcctcaagc	aggcctggtt	tattgaaaat	gaagagcagg	aatatgttca	120
aactgtgaag	tcatccaaag	gtggtcccgg	atcagcgggtg	agcccctatc	ctaccttcaa	180
tccatcctcg	gatgtcgctg	ccttgcataa	ggccataatg	gttaaagggtg	tggatgaagc	240
aacctcatt	gacattctaa	ctaagcgaaa	caatgcacag	cgtcaacaga	tcaaagcagc	300
atatctccag	gaaacaggaa	agcccctgga	tgaaacactg	aagaaagccc	ttacagggtca	360
ccttgaggag	gttggttttag	ctctgctaaa	aactccggcg	caatttgatg	ctgatgaact	420
togttgctgc	catgaagg					438

<210> 97
 <211> 471
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (471)
 <223> n = A,T,C or G

<400> 97						
togttatccg	cgatgngttt	cctggcagct	acattcctgc	tcctggcgct	cagcaccgct	60
gcccaggccg	aaccgggtgca	gttcaaggac	tgcatattc	agtctaaaag	cagcaaggcc	120
gtggtgcatg	gcatectgat	gggcgtccca	gttcccttc	ccattcctga	gcctgatggt	180
tgtaaagagt	gaattaactg	ccctatccaa	aaagacaaga	cctatagcta	cctgaataaa	240
ctaccagtga	aaagcgaata	tccctctata	aaactggtgg	tggagtggca	acttcaggat	300
gacaaaaacc	aaagtctctt	ctgctgggaa	atcccagtac	agatcgtttc	tcatctctaa	360
gtgcctcatt	gagttcgggtg	catctggcca	atgagtctgc	tgagactctt	gacagcacct	420
ccagctctgc	tgcttcaaca	acagtgactt	gctctccaat	ggtatccagt	g	471

<210> 98
 <211> 578
 <212> DNA
 <213> Homo sapien

<400> 98						
ccagtgtggt	ggaattcgca	gccaccgcca	cccattggaa	tggccaacag	gggacctgca	60
tatggcctga	gccgggaggt	gcagcagaag	attgagaaac	aatatgatgc	agatctggag	120
cagatcctga	tccagtggat	caccacccag	tgccgaaagg	atgtgggccc	gccccagcct	180
ggacgcgaga	acttcagaa	ctggctcaag	gatggcacgg	tgctatgtga	gctcattaat	240
gcaactgtacc	ccgaggggca	ggccccagta	aagaagatcc	aggcctccac	catggccttc	300
aagcagatgg	agcagatctc	tcagttcctg	caagcagctg	agcgctatgg	cattaacacc	360
actgacatct	tccaaactgt	ggacctctgg	gaaggaaaaga	acatggcctg	tgtgcagcgg	420
acgctgatga	atctgggtgg	gctggcagta	gcccagagatg	atgggctctt	ctctggggat	480
cccaactggt	tccctaagaa	atccaaggag	aatcctcgga	acttctcgga	taaccagctg	540
caagagggca	agaacgtgat	cgggttacag	atggggcac			578

<210> 99
 <211> 416
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (416)

<223> n = A,T,C or G

<400> 99

caagaatgtg	cctaactggc	atanagatct	ggtacgagtg	tgtgaaaaca	tccccattgt	60
gntgngtggc	aacaaagtgg	atattaagga	caggaaagtg	aaggcgaaat	ccattgtctt	120
ccaccgaaag	aagaatcttc	agtactacga	catttctgcc	aaaagtaact	acaactttga	180
aaagcccttc	ctctggcttg	ctaggaagct	cattggagac	cctaacttgg	aatttggtgc	240
catgcoctgct	ctcgccccac	cagaagttgt	catggaccca	gctttggcag	cacagtatga	300
gcacgactta	gaggttgctc	anacaactgc	tctcccgat	gaggatgatg	acctgtgaga	360
atgaagctgg	agcccancgn	cagaagtcta	gttttatang	cagctgtcct	gtgatg	416

<210> 100

<211> 441

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(441)

<223> n = A,T,C or G

<400> 100

agacaatgac	cccacggntc	ctccttatga	ctccattcaa	atctacggtt	atgaaggcag	60
gggctcagtg	gccgggtccc	tgagctccct	agagtcggcc	accacagatt	cagacttgga	120
ctatgattat	ctacagaact	ggggacctcg	ttttaagaaa	ctagcagatt	tgtatggttc	180
caaagacact	tttgatgacg	attcttaaca	ataacgatac	aaatttggcc	ttaagaactg	240
tgtctggcgt	tctcaagaat	ctanaagatg	tgtaaacagg	tattttttta	aatcaaggaa	300
aggctcattt	aaaacaggca	aagttttaca	gagaggatac	atttaataaa	actgcgagga	360
catcaaagtg	gtaaatactg	tgaaatacct	tttctcacia	aaaggcaaat	attgaagttg	420
tttatcaact	tcgctagaaa	a				441

<210> 101

<211> 521

<212> DNA

<213> Homo sapien

<400> 101

ccagcgccca	gagagacacc	agagaaccca	ccatggcccc	ctttgagccc	ctggttcttg	60
gcatectgtt	gttgctgtgg	ctgatagccc	ccagcagggc	ctgcacctgt	gtcccccccc	120
acccacagac	ggccttctgc	aattccgacc	tcgtcatcag	ggccaagttc	gtggggacac	180
cagaagtcaa	ccagaccacc	ttataccagc	gttatgagat	caagatgacc	aagatgtata	240
aagggttcca	agccttaggg	gatgccgctg	acatccggtt	cgtctacacc	cccgccatgg	300
agagtgtctg	cggatacttc	cacaggtecc	acaaccgcag	cgaggagttt	ctcattgctg	360
gaaaactgca	ggatggactc	ttgcacatca	ctacctgcag	tttcgtggct	ccctggaaca	420
gcctgagctt	agctcagcgc	cggggcttca	ccaagaccta	cactgttggc	tgtgaggaat	480
gcacagtgtt	tccctgttta	tccatcccct	gcaaaactgca	g		521

<210> 102

<211> 520

<212> DNA

<213> Homo sapien

<400> 102

gaagaaaaag	aaattctgat	acgggacaaa	aatgctcttc	aaaacatcat	tctttatcac	60
------------	------------	------------	------------	------------	------------	----

ctgacaccag	gagttttcat	tggaaaagga	tttgaacctg	gtgttactaa	catttttaaag	120
accacacaag	gaagcaaaat	ctttctgaaa	gaagtaaattg	atacacttct	ggtgaatgaa	180
ttgaaatcaa	aagaatctga	catcatgaca	acaaatggtg	taattcatgt	tgtagataaa	240
ctcctctatc	cagcagacac	acctgttgga	aatgatcaac	tgctggaaat	acttaataaa	300
ttaatcaa	acatccaaat	taagtttggt	cgtggtagca	ccttcaaaga	aatccccgtg	360
actgtctata	gaccacact	aacaaaagtc	aaaattgaag	gtgaacctga	attcagactg	420
attaaagaag	gtgaaacaat	aactgaagtg	atccatggag	agccaattat	taaaaaatac	480
accaaataca	ttgatggagt	gctgtgggaa	ataactgaaa			520

<210> 103

<211> 479

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(479)

<223> n = A,T,C or G

<400> 103

ctgattctca	ggctagaagt	gtcacttttc	ttatctgtac	ttccaaagca	ctttcgtata	60
tttttattat	ggcatttata	tatagttcat	ttatatttta	attttaattc	catgaacaat	120
caagtaccaa	gtataatgga	gaaggtgctc	atcctctgcc	ttccttgagc	ttctgggtga	180
tgccaggccc	aagtccttgt	ggcaccacgc	tccatgcttt	gaatactatg	tggctgaatg	240
aattttttaa	atctcaaagc	agttaaacag	caggaaagcc	cattaacttc	gtactgaaaa	300
agcaacatac	tgtgatgata	cgggatgaca	tcatttcagg	ttgggcatac	aaaaaagtaa	360
ggaagctaaa	ctaagactat	actcaccagg	ccatttagaa	gtttttaaata	atgcctccac	420
tatttttttt	cttanacata	gcttttaaatg	gggaaatgga	attagtaaat	gactatttt	479

<210> 104

<211> 324

<212> DNA

<213> Homo sapien

<400> 104

tgaccatcca	tatccaatgt	tctcatttaa	acattaccca	gcattcattgt	ttataatcag	60
aaactctggt	ccttctgtct	ggtggcactt	agagtctttt	gtgccataat	gcagcagtat	120
ggaggaggga	ttttatggag	aatgggggat	agtcttcatg	accacaaata	aataaaggaa	180
aactaagctg	cattgtgggt	tttgaaaaag	ttattatact	tcttaacaat	tctttttttc	240
agggactttt	ctagctgtat	gactgttact	tgaccttctt	tgaaaagcat	tcccaaaatg	300
ctctatttta	gatagattaa	catt				324

<210> 105

<211> 541

<212> DNA

<213> Homo sapien

<400> 105

cttggttcca	gaacctgacg	acccggcgac	ggcgacgtct	cttttgacta	aaagacagtg	60
tccagtgtct	cagcctagga	gtctacgggg	accgcctccc	gcgccgccac	catgcccaac	120
ttctctggca	actggaaaat	catccgatcg	gaaaacttcg	aggaattgct	caaagtgtcg	180
ggggtgaatg	tgatgctgag	gaagattgct	gtggctgcag	cgtccaagcc	agcagtggag	240
atcaaacagg	aggagacac	tttctacatc	aaaacctcca	ccaccgtgcg	caccacagag	300
attaacttca	aggttgggga	ggagtttgag	gagcagactg	tggatgggag	gccctgtaag	360

```

agcctggtga aatgggagag tgagaataaa atggtctgtg agcagaagct cctgaaggga 420
gagggcccca agacctcgtg gaccagagaa ctgaccaacg atggggaact gatcctgacc 480
atgacggcgg atgacgttgt gtgcaccagg gtctacgtcc gagagtgagt ggccacaggt 540
a 541

```

```

<210> 106
<211> 391
<212> DNA
<213> Homo sapien

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```

<400> 106
cagaagtctt ggactgcaac tacatacatg gaatatgaga ctcttaccct gggagatatg 60
attaggagaa gtggtggcca cagtcgaaaa atcccaaggc ccaaacctgc accactgact 120
gctgaaatac agcaaaagat ttgtcatttg ccaacatctt gggactggag aaatgttcat 180
ggtatcaatt ttgtcagtcg tgttcgaaac caagcatcct gtggcagctg ctactcat 240
gcttctatgg gtatgctaga agcgagaatc cgtatactaa ccaacaattc tcagaccca 300
atcctaagcc ctcaggaggt tgtgtcttgt agccagtatg ctcaaggctg tgaaggcggc 360
ttcccatacc ttattgcagg aaagtacgcc c 391

```

```

<210> 107
<211> 462
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

```

```

<400> 107
cgtgacctca agatgngcca ctctgactgg aagagtggag agtactggat tgacccaac 60
caaggctgca acctggatgc catcaaagtc ttctgcaaca tggagactgg tgagacctgc 120
gtgtacccca ctgagcccag tgtggcccag aagaactggt acatcagcaa gaacccaag 180
gacaagaggc atgtctggtt cggcgagagc atgaccgatg gattccagtt cgagtatggc 240
ggccagggct ccgacctgct cgatgtggcc atccagctga ccttccctgc cctgatgtcc 300
accgaggcct ccgagaacat cacctaccac tgcaagaaca gcgtggccta catggaccag 360
cagactgggn acctcaataa ggcctgtctc ctccagggct ccaacganat ngagatccgc 420
gccgagggca acagccgctt cacctacagc gtcactgtcg at 462

```

```

<210> 108
<211> 580
<212> DNA
<213> Homo sapien

```

```

<400> 108
atataccatt taatacattt acacttttct atttaagaag atattgaatg caaaataatt 60
gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120
acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180
ctgactctaa tcaaatgtga tgattggaat tagaccattt ggccctttgaa ctttcatagg 240
aaaaatgacc caacattttt tagcatgagc tacctcatct ctagaagctg ggatggactt 300
actattcttg ttttatattt agatactgaa aggtgctatg cttctgttat tattccaaga 360
ctggagatag gcagggctaa aaaggatta ttatttttcc tttaatgatg gtgctaaaat 420
tcttctata aaattcctta aaaataaaga tggtttaatc actaccattg tgaaaacata 480
actgttagac ttcccgtttc tgaaagaaag agcatcgttc caatgcttgt tcactgttcc 540

```

tctgtcatatc tgtatctgga atgctttgta atacttgcac

580

<210> 109
<211> 482
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

<400> 109
caggcgtgca gtttcccggc tctccgcgcg gccggggaag gtcagcgccg taatggcggtt 60
cttggcgctcg ggaccctacc tgaccatca gcaaaagggtg ttgcggcttt ataagcgggc 120
gctacgccac ctcgagtcgt ggtgcgtcca gagagacaaa taccgatact ttgcttggtt 180
gatgagagcc cggtttgaag aacataagaa tgaaaaggat atggcgaagg ccaccagct 240
gctgaaggag gccgaggaag aattctggta ccgtcagcat ccacagccat acatcttccc 300
tgactctcct gggggcacct cctatgagag atacnattgc tacaaggctc cagaatgggtg 360
cttagatgac tggcatcctt ctgagaaggc aatgtatcct gattactttg ccaagagaga 420
acagtggaag aaactgcgga gggaaagctg ggaacgagag gttaagcagc tgcaggagga 480
aa 482

<210> 110
<211> 286
<212> DNA
<213> Homo sapien

<400> 110
aatcattctg cactcactgg gtgcatagca tggttagagg ggctagagat ggacagtcac 60
caactggcgg atatagcggg acatatgac cttagccacc agggcacaag cttaccagta 120
gacaatacag acagagcttt tgttgagctg taactgagct atggaatagc ttctttgatg 180
tacctctttg ccttaaattg ctttttagtt ctaagattgt agaatgatcc tttcaaattg 240
taatcttttc taacagagat attttaatat acttgccttc ttaaaa 286

<210> 111
<211> 465
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 111
agctactgtt aagatttgac agattgtcct gtctttttcc agtatatata ggtatctata 60
tatgtatata ctgtatatac ttatatatat ttattgtatt aaatatatac atatgtatat 120
gtatatataa gtatgtgtat atatgtatat atttaataca attattaaat tgtattattg 180
tattaaatgt atacatatat acacacatat atatacatat gcatatattt aacacagtta 240
aaataacact aaatgtacca ttttgtttct ggccttttca gntaatgtta tgaagaattt 300
ttctattttg ttaaacttct ccaaaaacat taaactgcat tatgttctga gagtagatgt 360
accacaatta attctaccat ttctgtattg ttggccatgt aggttgttct taattttctc 420
attattatga atgcatgtga caatcattgg ttttgctaa agttg 465

<210> 112
 <211> 773
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(773)
 <223> n = A,T,C or G

<400> 112
 ttttttttca gtttttgcag ttggtgtggt tagcagatac tttcttagaa taaaattgat 60
 aactcaattt gattttttaa aagttgtttt agtgatttaa aatgttgata tggaaaaata 120
 ttaaacatta tatagatagt aggcaaattc atatccta atgcaatatta gcttgttagca 180
 ttttaaatata aaatctaaat ttcttgatat attgccacat tagttgtaat gtttaataaa 240
 tgggtggttaa agattttatt gtaattta atgtgtactt agttgccatg gacctctctt 300
 ttagcttttc ataaataaat atccttta atccttacct cctccttcaa ttgactgatg 360
 ctgggatagg gtgttctttg gagcttatct tggtaaagaa ggtcagaagt gacatataac 420
 cctattccct agggggccgag ggtgctttcc ttacagagtt gtattttaag tgagtcaact 480
 cctgagccag catctactaa gagaaccttc aaacataatc ataggcattt aaataatttg 540
 aaaaatcaaa ttccttgc ataaaaacatt tacccttang ttcatttctt tataanggtt 600
 ctctttttta aaaaaaggat tggatatttat gaaagggaa ggtggctggg tttttcttaa 660
 gcattatgna aagggggagt acccctattt ttctttctcc ccanggaaaa tgggtgaagg 720
 gaacctgggc aatgcccatg attgnaaaaa ttccacttcc nttgaacaat ggg 773

<210> 113
 <211> 543
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(543)
 <223> n = A,T,C or G

<400> 113
 gtttttctga tttgaaaaat tgtttataat attactataa gatgagatta acaatctttg 60
 taaaaatcag attatgtttt gggcttaaaa aaaaccctag tgttttctac tattagtgtg 120
 ctcaaatgat ttgtgagtga tagtactcaa atgagaattg catttaattt gtacatagtt 180
 aaatcgtctt gttttgaagc acaaagtcag gatgtttctc atcagaattt tctgtttgaa 240
 tagggaaaaa tggcatttgt catgaggcat cattaaaaac ggaaagcaga ggaaaaattg 300
 gaaagctaca gaaaaaagat tcacatgaaa aaccaagctg aagaaaaaag ctgcagaaca 360
 gtttcgaatg cgaacttaaaa aattaagcca agatgnaaat gaagctagaa agggagatct 420
 cagaaagaag ccagccgagc ctgtcaaaca actggatgtc cagaaaaata ttcaggttcc 480
 ccaggggaaa gcatgggtac tgggtttgan gcttggaaga nggagactgg aaggaaagaa 540
 tga 543

<210> 114
 <211> 550
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(550)
 <223> n = A,T,C or G

<400> 114
 ggaaagaggt aagcggtaaa ttacatagac tgctggagga agagtgttcc agtggagaga 60
 aacagagcta gtgcaaaggc cctgaggtga gagcatgcct ggtgtgatcc ggggatggca 120
 aggaggccag ggtggtggat gaggagttag caaggaggan agtacgagga taagaagcca 180
 ncaaggaaaa atggcagtgg ggcggatcac ctanggtctt agtacgccat tgtgaagact 240
 ttgccttttg ctcccaantg gaatgggtac tcnttgaagg cttttaancc caggaanaaa 300
 cattgattga tttanaagtt taaanggatc acntttgggt attgtggcca acaagacact 360
 gcgggaagaa gcaagaaggg tagaaagcca gnaaaccaac tnaggaggct tttgcagtaa 420
 tcctggntga nanacantgg tggctcnggt taaaaagttt tggaaaaaat taaaactgtt 480
 tgatggtttg tttcctgttc ttgggggcnt aggcattcca actccttacc gaaagggtta 540
 ccccntttga 550

<210> 115
 <211> 550
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(550)
 <223> n = A,T,C or G

<400> 115
 caatgtggca cttaacttan tgggtacaac tgtatcacat catgtgtgaa tcgtgagacc 60
 actcaaactc ctctctggga aaacncggct gctccccga tggctggcag gtgttggaac 120
 ctcggtctcc cgtccgtctc tggggcaagg tgggtttcct catgtatngc aagagtctat 180
 cgtgcggtgc ttctctcttg gcatacagct cacagctctt tggcctatac agtgtggaaa 240
 tttatnctcc ggtgctggag gtgttaatgg gaaagagctc ggttaaatgc acttctcact 300
 tggcccgtgg gtgatgctct acatgactga attcntctct nacggggact gacattgtat 360
 ctatacacta natccttcca ccanagtggc gttaaggacg gtgtctggga tggaaactga 420
 cggtacangc cccanctctc tgaaatgagt ccananatga actacctgca tacctctcta 480
 aatcactctg gtctggcatg ntctccgtgc cgaaacatat atatgtatgt ctctccncat 540
 acgaaaaana 550

<210> 116
 <211> 463
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(463)
 <223> n = A,T,C or G

<400> 116
 cacaatgtgg tactttactt agttggtaca actgtatcat atcatgtggt gaatcacgtg 60
 tgacgtgact ccgcaactcc gcaccagact acactgcacg taatnacagc cngcaaccca 120
 ggtggacaaa nattgacgca atgttgtgtc antgccaccg tgccacacca cctgtggagg 180
 acgtcagctc tctcttcccc caaaaccagc gacctctntg atctcccgac cngaggtcct 240
 nggttgtggt gactgagcnc aaaaccgagg tcgttcaact gtacttgacg ctggagtcac 300

atccaganaa	agcccgaag	acatcacngc	cttcgtgtgt	cnetctcacg	tctgcacaga	360
cggctaacgc	aggatcattc	angtccacaa	gctccacccc	tcanaaactc	tcnaacaagg	420
cagccgaaac	acgtttccct	gccctccgga	gaatacanaa	cag		463

<210> 117

<211> 503

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(503)

<223> n = A,T,C or G

<400> 117

nncactnatg	tgctacgtta	acttagttgt	acaactcgat	cctatccatg	tgggtgaattc	60
tctccagcag	tacactgang	atacanctta	ttgttattga	cgtgcgctgc	gctcactacc	120
gncagccagg	gaatgcgcct	caggaaccct	ggtgccccacc	ctggctggca	tngccattgt	180
caaggaagag	aaacgagntg	ccattggagc	cctcctactg	ccatgagggc	ctgaaacaaa	240
ctgtgntatg	ctctgcgaag	gtctggtgct	aaggtcccgc	tggctcacta	tggcacacca	300
ctcngggctg	aagttgtggt	cctgaaggta	ctcancccag	tgtggccggg	acctggatac	360
gtgcacattg	ccgtgtcgca	aaaccagcat	tgtatgtgca	catgtagttt	gttccactga	420
atgtcncctg	ggcctcagat	ttcagggaga	ttgactctca	tctcnttgct	ctactaagag	480
agagcacctc	acctgaatgt	caa				503

<210> 118

<211> 560

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(560)

<223> n = A,T,C or G

<400> 118

tgggggnnca	ctaagtgcta	cgttacttag	ttgtacgact	cgatcctatc	atgtggtgaa	60
ttctgnagcn	tgggtctcatg	agcctctctg	gtgcgctgtg	tgtatnggta	cggcgctctc	120
tatcgcttta	tctcttctga	ctcgcaccgg	ggccggcggc	atcaccggcc	aagaccctgc	180
acaatgaaga	ctgcaggagc	aggcgggtgg	cccacctggc	cctggacctg	aagaccnaaa	240
ctggagcagg	ctcnggccgg	aggactgggc	accgcctaca	ggccacgtca	cccacggtgg	300
ctggnanaac	aatgaaaaca	agaagaactt	ctctacccaa	gagagaagtt	caaaaccncg	360
aactcactgt	cgggaaattg	actaaaactg	cngaactgaa	gaaaacaacn	caaagccnnc	420
tnaagcanag	aagngaactg	agacgaacat	catccnccna	actaatgaaa	agagagacgt	480
tccttgnaga	gacnaagaga	gagaaagagc	cccagacngc	cccggactaa	gattctaata	540
agagcttggt	gtgagagaag					560

<210> 119

<211> 638

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(638)

<223> n = A,T,C or G

<400> 119

acaaaagtgc	tacgttactt	agctgtacga	ctcgatcatat	ccatgtggtg	aatcatatcgc	60
tattttatat	acngtngatc	aacatgaagg	gtnngtgtct	gatcccgcg	atcaaaacac	120
gtgttacttt	gactcccaa	acctactcta	gtaataccta	ctattgacca	gaaccttaca	180
ttacataaac	agttncata	ttctgtatat	atatgtatac	tgtattctta	ataagtaagc	240
taagaaatgt	tattgaaatc	ataaggaaaa	gaaatgtatt	atacactgta	tgtattgtct	300
gtantgtact	gtctgttaca	agatgatcgt	ctgatgaatg	atgcgctgca	ccccaaactat	360
gtattacaaa	caatcncctt	tcattgtgtc	tgacttgctt	ctgaaatact	ccacacncta	420
tngttttata	tggtcctggt	gtattcaggt	tatntatgcc	taactgaaaa	tcccagaacc	480
tgaagatatg	tttctgtgat	cncattactg	ganaaagaac	gcccatacat	actcncgng	540
tttaacggat	ccccaccta	cncgcatac	acagagtgtg	naatttgtnt	acacttntca	600
cgtanctagc	tttgaataac	gctcttcttt	ttcttccc			638

<210> 120

<211> 434

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(434)

<223> n = A,T,C or G

<400> 120

ngnnnggggca	caaaagctgc	tatgtttaac	ttagcttggg	tacgactcgt	tcatatccat	60
gtgnttgant	caccgctcta	ctgccaagca	tcattttggt	tctacgnctc	aanctgtgna	120
aangatgtgg	gttaggggan	tgaagatgca	aacncctagg	gtangggcat	ttanaactga	180
aaagganagg	aaganaagac	ctgcgaacgt	gggggataag	actanaagaa	agacgggaga	240
naatantgtc	tttganccct	aaatggaaca	tnccccatcc	tatctgttan	aaancaccan	300
gtaaaatggg	atgtntgcac	naaagaataa	gttaaactaa	acnccggacn	gtgactanaa	360
aatgaangac	cacanatgaa	aaggcgatga	ctngcctgtt	tacctancct	gtanacctat	420
attttcnggg	ttat					434

<210> 121

<211> 631

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 121

caaagcgcta	tgtaaatgag	cttgtacgac	tcgtcatatc	ttgtggtgta	tcatatcttc	60
tctctctttc	aacaaactcc	ccagctccac	ccgggctcta	cctccgagac	cagganccaa	120
aacgancgaa	gatggctgct	ctgcgcgcca	cgcgcgcga	ctcccgtgc	ccccggcccc	180
gattccttgg	ataaaganaa	gaatcgcaag	aaaccatcaa	tcgcactctc	cttctccggc	240
gctcgnctgt	ccggctccgg	gtcggatgct	gcaaatgctg	ggatgccgag	ntgtgcgcgg	300
gccagntgc	gcacggttac	acacaccact	ctggactgga	gaagaatcat	ttatantttc	360
gtgcgcgacc	cgcgtcaaat	gcgcttgctg	aactcacgaa	agnagtcaat	ntgttctaac	420

gngetgaaca	cacgcagacc	ncacnaaagc	gccgatggga	ctgctgccgg	aacctggaga	480
ctctcaactc	caagaaccgc	gcaaccgggc	ggcctccgct	ccggcgntgg	gaactgtntc	540
ccccgaagt	tggtccggt	taacgcgacc	cggttanctt	cgtnaaagg	ngggcctnaa	600
ttcgggtgct	tncnggcggg	gggtgaccgc	c			631

<210> 122

<211> 678

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(678)

<223> n = A,T,C or G

<400> 122

caaagcggct	angttaatta	gctggtagca	ctcgatcatat	catgtgggtgn	atccacacat	60
ggaatgaggg	tcccgtcac	tctggggctc	tgctgctctg	gtccatgtgc	cagatntaaa	120
tccagatgac	cagtctctc	ctccctgtct	gcacgggtgg	ganacgaatc	accatcactt	180
gncgggcaat	caganattan	aaatgattaa	cctgggtatca	gcagaaacca	gggaaaccct	240
aagctctgat	ctttgctgca	tcagttacaa	gtggggctct	tncgcttca	cggcagtgnt	300
ctggcacaga	ttcatctcac	atcncagctg	cagcctgaaa	aatttacct	tatactgtct	360
acggataaca	ataccctgna	cttcggcaag	gactanggtg	gaatnaaacn	aatgtggctg	420
cacatctgtc	ttctcttccc	gctctgataa	cagtnaaatc	tgaactgctc	tggtgtgtgc	480
tgctgatact	tctatccana	aaagccaagt	acatggaagt	gaatacgctc	ccaatcggtt	540
atccagaaat	gtccaaaanag	gaacaggacg	ntacgctcg	cacncctgac	ctaaccancn	600
aatcnaaaac	caatctnccc	gcaatccctc	gggctgacct	ctccaaaact	ccngggaatt	660
taaggaaatc	cccccccc					678

<210> 123

<211> 445

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(445)

<223> n = A,T,C or G

<400> 123

gaggggggng	caaaagcgct	acttaattag	ctgtacgact	cgatcatatca	tgtgggtggat	60
cagcatccag	atggcataat	cggtaatgt	cctgggggtc	agatgtatgc	gatgtccggc	120
taatgtgaca	tcttgccanc	tagcttaagg	anggtggct	agaagacatt	gcagaaacag	180
gagctcggcc	cacangtttc	ccaaggctct	cacccattc	catctccagg	gaagctcgcc	240
cagtggcact	gaatggcctc	ctcagcggag	ggtttggat	caggctgggc	aagaactgct	300
aatcttgccg	ggactggaac	cagctctccg	gccttctctg	gctccttggg	tctgggtggg	360
aaggggaagag	ggaaaagaaa	ggaaatctcc	nggcananga	ngggacaccc	canacaccga	420
agacacnccc	ccctcctgta	actgt				445

<210> 124

<211> 641

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(641)
 <223> n = A,T,C or G

<400> 124
 gagggggggg ncaaagcgct acgttaatta gctgtacgac tcgtcatatc atgtgggtgga 60
 tcccactaca angttgtcac tatatattan atctatagtn gagtcngtnt tccccatccc 120
 tgtaaacgaa tttactattg ttggggtagt gtccctactt tcctgattaa ggatctgtgc 180
 tggggaacaa gcnttgcata ccttatatgt agttaanatt tattaacata tcctcatgan 240
 ctcatcaca ctgnanctct cctnaaaatn gtgtgctcct gttacattan aactaatctg 300
 aaataaagac tctcnaatgc tgtgcaacat anttactgtg tgaaggagca gtgtnaattg 360
 agtaccaatt tagcatcgat ttgaaacgca ccttatttga actgtgaata aacactttct 420
 gcgtatacta ctgcttacat ccaattcngt gatttaagat actcgtggta tagatacact 480
 gattgaagtc cgatatatgc aaaatcctt cataggattg acatgctgat ntngagtngc 540
 nttcaatgtg gagtatactt acntaattgc taacgtataa agtattgaan gtnnaatagt 600
 cagcttcngt gnaaaatnng aaattagtat ggtncngttc c 641

<210> 125
 <211> 285
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 125
 agggnggcac aaagcgctac gttaatnagc tgtacgacg tccatatacag gtgggtggatc 60
 catatgtccg gtattctctg atgtcangct tattataata gtaccaaccc ttcatctctg 120
 aaatgtctgg ttctggttcc ctattatata ccagcactga aaatattcgt atcttagnan 180
 caaaagcatt taaaagaggt taaaaattta ntcatacacta tgcacttcaa ggggagaagc 240
 tncactgcnt ncttgagnct angcaagatg cnagcncctt ggaag 285

<210> 126
 <211> 282
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 126
 agggnttgac aaagcggcta cgtaatnag ctggtacgac cgatcatatcn tgtgggtggat 60
 ccngaacang tagcctcata atcacaacat ccattagcca cagtaaaactg attctgtaac 120
 tccactggca atgctgattg gtaatggctg cataaaacca gtgtatcaat ttantttcgg 180
 ttttgagaca aaatctcata ttatacnctg acatctcnaa ctlogatata tgaccaaata 240
 cgggnagaca ttattcaaan atatttacct tacanaaaaa aa 282

<210> 127
 <211> 634

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(634)
<223> n = A,T,C or G

<400> 127
acaaagcggc tacgttantic agctgggtacg accgtccata tcatgtggtg gatcntgaaa 60
anctttgatc ggctgcgggtg gaaacgttgt cngggccggc aagaagagcc gctgtnacaa 120
tggtgtcatg agttcagccg aacgcangac gggtctcaca cccgtgctgc ggtggtgccca 180
tgtccgcacg ggacaatatc ctggggaccg gtactggtag taactatgat gcattntgct 240
gantgtgaat gatctcaact catgccagct gtcacattca tagaattctc gtaatatatc 300
ntcgaaaaat ggtaanatgc tgtgtctttt gccgtcctgt tctatgttta tatcagtcag 360
ctgttatgac attctatcag tggttggtcg atccatctct gttacnactt tgactcgtct 420
cattgccgtt gctatagtcc tcactattgc cagatcaaaa tactgatcac tactaattcc 480
nacaananac tctggctgga ccactgcccn gtcatgtctg tgtcttgcta tcacatttaa 540
gctactatta ctgtgttgga atgcataatc tcacaacnaa gtgcgaaatg ngtttccgcc 600
ttgaatacnc cctactttgc ccctataaag gcgg 634

<210> 128
<211> 180
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(180)
<223> n = A,T,C or G

<400> 128
caaagcgcta cggttaatnag ctgtacgacc gtccatngtc aggtggtgga tccctgttat 60
gtcaagaaaa gtaaatcgct tcttcaataa ggcctttatt tgggacagg tttatttcctg 120
atatnatntc ttttatactc ttttctctca gaaanaaaaa agtngtntnc tcttattgtc 180

<210> 129
<211> 567
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(567)
<223> n = A,T,C or G

<400> 129
acaaagcgct atgttaactt agctgtacga ccgtccatng tcaggtggtg gatcctccccg 60
tgtgctggat tcataatgga tctatattaga cagttgagaa taaattattc tattacaata 120
atagatgcta atatataat tatgctgttt ggatatctaa atatttgctc acatccttaa 180
tatattttta aaattctaac aatagtactg ttganataaa gttgagccat attganacnc 240
tccanattg gtcctagaaa gttacactgg ttgtctctcc ttatgtcctg ttatccacc 300
tgacgctgcc gctttatatt cttaatgant tggacggaca gtggtatccg atcggtttga 360
cgacgttaca ntactnacca tctatacgtc tacttaattg acagcagatt tcgtagcnct 420

```

cattaggatc tgttccaacn gttggcaaat naccncggan gaagttccng tagttgtcnn    480
ctccccctat tgaaccttat gaccnatctt cctttacnca catatcgacc ttcttgacaa    540
cncctttttn aaagaactct tcnccca                                           567

```

<210> 130

<211> 557

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(557)

<223> n = A,T,C or G

<400> 130

```

aggggnntcac aaaagcgcta cgttaatnag ctgtacgact cgtcatatca tgtgggtggat    60
cccgcgggcgt gcggaactga tgtcaaactc tgctcgcggc gatgcgcccga tcggcgcccg    120
ggatacgtgg caagcgcggg cccggcgcca gccgcactct cccancctgg cgtggccacc    180
cggccaagca gaatgggtcc tgcagctgcn gtctagcngt ctgcaccaac acgggtggtg    240
gtgcagcnaa gtctccggaa tccncaaggt ctattnaatt ctgtgggaaa ttanatctca    300
actcaatagg cttttccaaa gaactattgc atgatattca acaagtaatt tcttatttca    360
atacactccg tatcagaatc atgttctttc tcgatctctt ccctcctccg aacagcctgc    420
antgactggt tcacctagac aannaatata tccttggtat tgggactcag cataactgtc    480
aaatatgcta tcnactcna tcnaagaaat ctttccgaag ctgtatttga ttcattaatt    540
tatccacatt actggat                                                         557

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<210> 131

<211> 655

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(655)

<223> n = A,T,C or G

<400> 131

```

agggnggcac aaagcgctat gttactgagc tgtacgnctc gtccattgtc ntgtgggtgga    60
tcntcggaatn aggtctgata tacttctgt gngatcnaga tgnatctncc tagntcccc    120
cgttggaatgc tgctcatnac tgctgcattt ccacgatcca ccctgtnatg gctatcctgc    180
tatacacaaac ngcatgatnn gatattgaat cctccacaat ggaagtgttc tgttatgacc    240
caccacctta tatncngccg ctgtctgaaa ctcaaaccct ttgcctgtnt cagancacga    300
tengttatgt tactgatgaa gaaatggaat actcccaaaa acagtgtcn gccgcaaato    360
ctacttccng caaactnaet gcgtctctta atcctaactc ctctccatan aactacagt    420
tactccgtga agcctgaag gaaatggan agttatagga aactntcatc gttataagcc    480
anaatgcntg attaaataaa tcgtctttng tgataacctc atcttcaactc ngttatacct    540
atcgttactn canaancctt attgaanttg aattgtnttg aaactgccga aaaaaacggt    600
cttatgtttc ccggaccttg ggggatcaat aatccaatag cntactcttc nccgc        655

```

<210> 132

<211> 566

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(566)
 <223> n = A,T,C or G

<400> 132
 agggtnncac aaagcgctat gttacttagc tgtacgtgtc gtcattntca tgtgggtggat 60
 tcgagcatca cagctctacg ttgtgcagct ctacagctcg caccagacgc tgaagcaaga 120
 gtacagtgca agtctccaca agcctcccag ccccatcgag aaacatctcc aaagccaaag 180
 ggcgccnaa aaccacngtg tacacctgcc ccatcccggg agaaatgacc agaacaagtc 240
 gctgacctgc tggtaagct ctatccagca ctccctggaa tgggaaacat ggcanccgaa 300
 aactacana cacnctcccg tgetggatcg acgtctctcc tctatgcanc tcacgtggac 360
 aaacagttgc acagggaact ctctctgtcg tgatgctgan ggtctgccaa cactacccaa 420
 aaanctctcc tgttcccgtg tataatgoga aggcggcanc cccnctcccg gntctcgcg 480
 tccacaagat gntgcacntn cccgtctatt cttccagcac ccantggaa ataagcncn 540
 ccatgncctg ggcctgaaa aaaaaa 566

<210> 133
 <211> 816
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(816)
 <223> n = A,T,C or G

<400> 133
 agctngggct nagggtataa aacttaagct tgggtnaccg agctcgggat ccactcagtc 60
 cagtngtggg tgggnaattc ctngnagcca cctnacagc cagtaagnag atatngtagg 120
 gtaaattgtt aagggnaagt cagcacttac attaaagtaa aattgggctc acaaaccgcc 180
 nacacagtna gcattttgtg gccaatctct gggttgggaa tgggtgaaca aacattgctg 240
 ggaagccaag tngctnaaca ttgccttggg ttcaaggggg natgggnaaa gtcaccggtt 300
 aaggggatgg gcaattgccg gtgggaaacc caccgcttgc ttgaaggctc tgggacttgc 360
 atccttacca cccaaactcc gtccaacttg gacaaagccc ttggccgcct tgccctctca 420
 ggaatgtctt acaaaaattg ggtgggttat tgggttactg gttccttgtt gggcccgaan 480
 ttgggaaaaa cttgggttgt tctcaaaacc cgggttattg ggttgggtca ccttttggct 540
 ccagnttca aacgtttaca aacggggaaa gtnaaaaatc ttgttcgaaa aattgccacc 600
 cattgnaaaa gcttttggaa nttggaaaac tcttccttgg gggggacaaa ttgtttgggg 660
 gctttccaat tgntcaaaaa aattgttgtt cttgttcaaa agggatgttt nccgttccgt 720
 ggggcaaac cgttttgctt gggttgaaca gccaaaaaa tttgnaancc ccaccaant 780
 tggggaaagc caagcnttgg ggtttcactg gcttcc 816

<210> 134
 <211> 451
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(451)
 <223> n = A,T,C or G

<400> 134

```

tttgnangag aggggtcacct gggcagccct gacttttgtc ccttgcaaaa gggaccttca      60
gtgaccttgg ccctaggaga gcctctgagc acgtcagcca tgtcgaaccg ctgaggaagg      120
gcagcaagaa tttggcttct gacctctgcc tctcctactc gccatctgca ctgggtgtgg      180
ttgtgcccat tttacagatg aggaggctgg ggcacgcacc agctgaatgc ctgtcccag      240
gtactgcgta agcagagctg gcagttgaac cccgtgtcct ggttgtcgct ggggggtggg      300
tgcaccctga ctgtgtaggc cagnagcaag gnttgcacgt gacttcgtga ccgtcaccca      360
gctctgcagc acatcccgtg acccancctc tccaggccgn atgcaaacct gttgccaggc      420
ganaaaacca agtcaccgca canctgtggg t                                451

```

```

<210> 135
<211> 658
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(658)
<223> n = A,T,C or G

```

```

<400> 135
gtggtatctg ccttcccagg aggcaggagt ggggccccca actgatgagc tcatggtgca      60
ctcttagctt ttaagacttg tcatacaggg tgcaataaaa caaaatgtgc cactcaaaat      120
gtactttttt ggtatatatt gatcttgcct ttaagagggg ctacaattca gagaggctgc      180
agacacagaa atagccctga aaagctttct tctctggcag agatttgcaa gtgctgagga      240
aatacacggt agtgaagtga acagaggaga aaagcatttc tctgaggcac accccacccc      300
caccttatct gcctaattgg atcaaggaaa gattaactcc caggaaaaaac agactgagat      360
cctaattgct taaaggtctg actgagaaac ttctccatag gccactgtct atcttcctga      420
gggcancttg ggggagcccc tgagagactc acatcttctg tggggacagc ctgtggctcac      480
caagcatacc tctctctctt cccattacc tgaaaccac cctccnaaaa cccagcccc      540
tattctctct gtagcctcag gatgtgaaga aatcttcctc attgggcctc ttggagctca      600
tatttgcctg tcntgtnttg tataatnaatt attgcattta tggtaatatt cctttgcc      658

```

```

<210> 136
<211> 478
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(478)
<223> n = A,T,C or G

```

```

<400> 136
gaagtctcgc gagtataaga acagtaacca gctccgggag taccagctgg aagggatgaa      60
ctggcttctt tttaactggt ataacagaaa aaactgtatt ttggctgatg agatgggcct      120
agggaaaacc atccagctca tcacattcct ttcagaaata tttctgagag gaatccacgg      180
cccttttctc attatcgccc ctctctccac catcactaac tgggagcggg agttccggac      240
atggacagag atgaatgcc a ttgtgtacca cggcagccag atcagcaggc agatgatcca      300
gcagtatgaa atggtgtaca gagacgcccc gggaaccctt ttcaggagtc ttcaagttcc      360
acgtcgtcat cacaacnttt gaatgatcct agcagactgc ccagagttga agaagaattc      420
actggaactg tgtggataat tggatgaaac cccccagact ggaagaatan ggaactgc      478

```

```

<210> 137
<211> 612

```

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(612)
<223> n = A,T,C or G

```
<400> 137
gcaggggctc ttgcaaatta acacaaaata ataattaaaa atgaaacgaa attgaggata      60
ttcttagaaa gggatgaagga catgaaatac attactatct gggatttcaa cttttccaaa      120
ggatcaataaa tccccaaata aaatgtaaat ccaaggctac ctgagaattc catttctggt      180
gcatctttgt tcatgatgag catatgtctt ttcattttga ggacttttta aaagagaaga      240
gtgacacaca atgcaacatg gacaaggaat gaaaattgct ttagacactg cactttgaac      300
atacaaacct gggaggtgcc agggctctgac actgtatatt tcttcctttg atctgattct      360
tccaaacagg atccatgtac tggcaaattt ccctagtgtt ccctggtaag catcaaagta      420
aaccactggt tggcctcggt atttctacat tggctttctc cattgntttt atacataaaa      480
aaaanaaaaa gaaagaaaac tcaactgggca ttttacatgg ggtttccata ttggtcctta      540
atcattcagt ttgaaagtaa atcaaagagg aatgaanagt taaagngctt tgaaattggg      600
gtgaaaactt ca                                     612
```

<210> 138
<211> 478
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(478)
<223> n = A,T,C or G

```
<400> 138
gcaggggctc ttgcaaatta acacaaaata ataattaaaa atgaaacgaa attgaggata      60
ttcttagaaa gggatgaagga catgaaatac attactatct gggatttcaa cttttccaaa      120
ggatcaataaa tccccaaata aaatgtaaat ccaaggctac ctgagaattc catttctggt      180
gcatctttgt tcatgatgag catatgtctt ttcattttga ggacttttta aaagagaaga      240
gtgacacaca atgcaacatg gacaaggaat gaaaattgct ttagacactg cactttgaac      300
atacaaacct gggaggtgcc agggctctgac actgtatatt tcttcctttg atctgattct      360
tccaaacagg atccatgtac tggcaaattt ccctagtgtt ccctggtaag catcaaagta      420
aaccactggn tggcctcggt atttctacat tggctttctc cattgggtttt atacataa      478
```

<210> 139
<211> 597
<212> DNA
<213> Homo sapien

```
<400> 139
gttattttggt agtttttagag atgaggaact aaggaccagc ttgctcagtg tttcctagct      60
agtgaataga gactagacac caagtgttct acgtgcagac tttatactgc tcagcctggc      120
acacaaaatg gcaatggcat agtccccaga ctgtgggtccc aactgtctct ttcctaacag      180
ctccccaggc acccacactt ttctgcctct ttttcaatct gtacccttga cctcctcct      240
ttttctgctt tgctcagactc cttaaggcac ttcataaatt aaccatttcc agggatttcc      300
cctcacacat gagttattcc agtggacagg gcagcctcat ggggtgcctgt ggaggggtgaa      360
gggtctgcct ggccgtaggt gtgatcacac actcccgttg taaccctgct ctcctgtgac      420
```

acttgctgcc	ccacgattta	gctgctttgt	gttccgtgcc	tctgtttgc	tggtgaactc	480
ctgagttggg	gggcgtcatt	ccctccactg	tagttcttcc	gcgatgctga	atccacccac	540
ggtcagcacc	actcggaat	acttcacagt	cctgtagagg	aagacaggtc	caggttt	597

<210> 140

<211> 368

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(368)

<223> n = A,T,C or G

<400> 140

tttacatcta	gactccacag	acagaaacgt	ttcattttta	ttgagttaat	tttgaaatat	60
atgaatccct	gacccattgt	tatcactagc	tgttactcta	tcaggacagt	tgctgaagtt	120
ttttgtcact	aaatttaaaa	atcaactatc	aggttgctcc	ttggatgacc	tgagatttct	180
agagacaaaa	gaaatctatt	cttctctgatt	gaagaaagag	tctgagattt	tttttaaacc	240
actgatttgg	ggatcagggt	gtagccagtg	tctcaaacctc	tcccctgtcc	cttttttggt	300
ttgctcaagg	agtgggctnt	gaggntctca	gaattggggg	ngttactggt	ttatttttga	360
ttagggggg						368

<210> 141

<211> 674

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(674)

<223> n = A,T,C or G

<400> 141

aatgtcaatc	tttgctcggt	cagtgaggat	gtcgccctgtt	gagggaaaaa	tagtagctgt	60
tgccatatcc	ctttaactcc	cccccccgcc	cccccgcaat	atgtcccctg	aataaacttt	120
gtgggtagtt	tttcttcatt	cccagaactg	ttatgaggta	agttcagaaa	ttgccagctt	180
cctgatgctc	tatgctttga	acacacaaaa	taatcaaagg	tgctcttttag	taggatccct	240
tccctatcaa	aataacagta	acacccaatc	tgaggcctca	agcccactcc	ttgagcaaaa	300
caaaaaagg	acaggggaga	gtttgagaca	ctggctacac	cctgatcccc	aaatcagtgg	360
tttaaaaaaa	atctcagact	ctttcttcaa	tcaggaagaa	tagatttctt	ttgtctctag	420
aaatctcagg	tcattccaagg	gacaacctga	tagttgattt	ttaaaatttag	tgacaaaaaa	480
actttcagca	actgtcctga	taggagtaac	caggctagnt	ggataaccaa	atggggtnca	540
agggggaatn	tcataatatt	ttcaaaaaat	taaaccttca	attaaaaaaa	tggaaaaaacc	600
ggttttcntg	gtcctgggtg	ggaggttctt	aagnatggta	aaaaaaggaa	atttccccac	660
ccaacnacct	tggtg					674

<210> 142

<211> 669

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(669)

<223> n = A,T,C or G

<400> 142

```

gttggaact tantcctcaa tgcaatagtg ttgagatgtg ggacctttaa gtgataatta    60
gatcatgagg gatttgccctc attcattaat tattgctatt atctcagggtg agttagttat    120
cggagattga aatcctgata aaaagttgag tttgttctct ctgtctctct ctctctctcc    180
actctagaat tgtaaaaaac taatctctat tctgcataaa ttaccagtc tcagggtatcc    240
cattatatta gcaggaaatg gactaagaca ctactttata aaattttgca gtttccaatg    300
ttcagctttt ccttgatccg gcttcatcta catttttctt tgcttggttac tgatggtgaa    360
attttcctgt tgtctttcat ttatggctta cactatcaca tgctctctat taattcatgc    420
cttctatttc cttctgttgt ttttgggaagc atctcttttc atggggtcat tttagctctg    480
taagacatat cgaaaactca cttgattcct cctgcatgca tagagctctg ctggggaagt    540
ctccttctgc atgctacgcc ttcccaccaa agacaaggct ttgcttattt gncattctg    600
tttaacgtct gccaaatatg nggtcttgac ncataagaaa actggtttga nccgcaaaan    660
aaaattttg

```

<210> 143

<211> 501

<212> DNA

<213> Homo sapien

<400> 143

```

agaccttatt tggtaatctg ctgtcttcca gtgtctctgc attagatacc attactacag    60
tagcacttgg atctctcaca tctattccag aaaatgtgtc tactcatgtt tctcagattt    120
ttaatatgat actaaaagaa caatcattag cagcagaaag taaaactgta ctacaggaat    180
tgattaatgt actcaagact gatcttctaa gttcactgga aatgatttta tccccaactg    240
tggtgtctat actgaaaatc aatagtcaac taaagcatat tttcaagact tcattgacag    300
tggtcgataa gatagaagat caaaaaaagg aactagatgg ctttctcagt atactgtgta    360
acaatctaca tgaactacaa gaaaatccat ttgttccttg gttgagtcac aaaagcaatg    420
tggaaccta actgaagacc tgaagacaat aaagcagacc cattcccagg aactttgcaa    480
gttaatgaat ctttggacag a

```

<210> 144

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 144

```

gatatctcag cacctgaact acacatctta catcctcaag caaactcccc agggcacatt    60
tttagttggc cagccatcac cccagacttc tggaaaacaa ctcaccactg ggtcagtggt    120
ccaaggaaca ctgggagtca gcacatcttc tgcacaagga caacaaacgc taaaagtcac    180
ctctggacag aaaaccacat tgtttacaca ggcagcccat ggaggacagg catctctaata    240
gaaaatatcc gatagcacgt tgaagactgt gccagccacc tcacagctct cgaagcctgg    300
aaccacaatg ctgagagtag caggagggtt tatcacaact gccacttccc ctgccgtggc    360
cctctcagca aacggtcctt gccaacagtc tgaaggaatg gctnccgtgt cttcatctac    420
ggncaaagttc tgtaacgaaa acttctgggc agcaacaaag tgtgtgtgan ccaagccacc    480
cgtggggaac cttgcaagggn t

```

<210> 145
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 145
 ggaatccgag ccggtaccc cctctccgag cgccagcagg tggcccttct catgcagatg 60
 acggccgagg agtctgccaa cagcccagtg gacacaacac caaagcacc cccccagtct 120
 acagtgtgtc agaagggaac gcccaactct gcctcaaaaa ccaaagataa agtgaacaag 180
 agaaacgagc gtggagagac ccgcttcac cgagccgcca tccgcgggga cggccggcgc 240
 atcaaagagc tcatcagcga gggggcagac gtcaacgtca aggacttcg aggcctggag 300
 gcgctgcacg aggcctgtaa ccggggctac tacgacgtcg cgaagcaact gctggctgca 360
 ggtgcggagg tgaacaccaa gggcctagat gacgacacgc cttttgcacg acgcttgcca 420
 acaacgggca ctacaagggt gtgaaactgc ttgttgcggt acnganggaa cccgnacaaa 480
 acaacaggaa aagcgaagac c 501

<210> 146
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 146
 ggcccgga cggacaggat tgacagattg atagctcttt ctcgattccg tgggtggtgg 60
 tgcattggcg ttcttagttg gtggagcgat ttgtctggtt aattccgata acgaacgaga 120
 ctctggcatg ctaactagtt acgcgacccc cgagcggctg gcgtccccca acttcttaga 180
 gggacaagtg gcgttcagcc acccgagatt gagcaataac aggtctgtga tggccttaga 240
 tgtccggggc tgcacggccg ctacactgac tggctcagcg tgtgcctacc ctacgcgggc 300
 aggcgcgggt aaccggttga accccattcg tgatggggat cggggattgc aattattccc 360
 catgaacgan gaattcccag taagtgcggg tcataagctt attccgcact tacctgggga 420
 gaagcctttt ggtcttcagg ggacnaaac agctttgttg ctgaacgcng gcagcaccgg 480
 tcgcgcgcgc cgggtggttac c 501

<210> 147
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 147
 cagcgcgcgc gcccgcccc tccagcttcc cggaccatgg ccaacctgga gcgcaccttc 60

atcgccatca	agccggacgg	cgtgcagcgc	ggcctggttg	gcgagatcat	caagcgcttc	120
gagcagaagg	gattccgcct	cgtggccatg	aagttcctcc	gggcctctga	agaacacctg	180
aagcagcact	acattgacct	gaaagaccga	ccattcttcc	ctgggctggt	gaagtacatg	240
aactcagggc	cggttgnggc	catggtctgg	gaggggctga	acgtggtgaa	gacaggccga	300
gtgatgcttg	gggagaccaa	tccagcagat	tcaaagccag	gcaccattcg	tggggacttc	360
tgcattcagg	ttggcaggaa	catcattcat	ggcagtgatt	cagtaaaaag	tgctgaaaaa	420
gaaatcagcc	tatggtttaa	gcctgaagaa	ctggttgact	acaagtcctt	ggctcatgac	480
tgggtctatn	aataagaagg	g				501

<210> 148
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 148						
actcttagct	tgctggggac	ggtaaccggg	acccggtgtc	tgctcctgtc	gccttcgcct	60
cctaatacct	agccactatg	cgtgagtgca	tctccatcca	cgttggccag	gctgggtgtcc	120
agattggcaa	tgccctgctg	gagctctact	gcctggaaca	cggcatccag	cccgatggcc	180
agatgccaag	tgacaagacc	attgggggag	gagatgactc	cttcaacacc	ttcttcagtg	240
agaacgggcg	tggaagcac	gtgccccggg	ctgtgtttgt	agacttgga	cccacagtca	300
ttgatgaagt	tcgcactggc	acctaccgcc	agctcttcca	ccctgagcag	ctcatcacag	360
gcaaggaaga	tgctgccaat	aactatgccc	gagggcacta	caccattggc	aaggagatca	420
ttgaccttgt	gttggaacga	attcgcaagc	tggtgacag	tgaccgggtc	ttcagggtt	480
cttggttttn	cacagctttg	g				501

<210> 149
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 149						
cgcccgggca	ggaatagaag	atgaacaaac	ccataacacc	atcaacatat	gtgcgctgcc	60
tcaatgttgg	actaattagg	aagctgtcag	attttattga	tcctcaagaa	ggatggaaga	120
agttagctgt	agctattaaa	aaaccatctg	gtgatgatag	atacaatcaa	gtttcacata	180
aggagatttg	aagcattctt	caaactggaa	aaagtccac	ttcttgaata	ctgtttgact	240
gggggcacca	caaattggac	agttggtgat	cttgtggatc	ttttgatcca	aatgaattt	300
ttgctcctgc	gagtcctttg	ctcccagatg	ctgttcccaa	actgctaata	cactaccttc	360
taaagaagct	ataacagttc	agcaaaaaa	gatgccttcc	tgtgacaaa	acaggacatt	420
gatgacacct	gtgcanaatc	ttgaacaaag	ctatatgcc	cctgactcct	caagtccana	480
aaataaaagt	ttaaaaagta	g				501

<210> 150
 <211> 501
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 150

cagcacagga	tactgatatt	ctgtcagctg	aaaagcatgc	ttgatatagt	agagcatgat	60
ctcctcaaac	ctcacttgcc	ctctgtcact	tatttgagat	tagatggcag	catacctcct	120
ggtcagaggc	attccattgt	ttcccggttt	aataatgac	catctataga	cggtctgtta	180
cttaccactc	acgttgggtg	cctgggactt	aatttgacag	gcgctgacac	agtagtattt	240
gtggagcatg	actggaantc	tatgcgagat	ctacaagcca	tggaccgggc	ccatcgcat	300
gggcagaaac	gtgtggttaa	cgtatccgat	tgataaccag	aggaacattg	gaagaaaaaa	360
taatggggtt	gcagaaaatt	caagatgaac	catagcgaat	ctgtttattag	ccaagagaat	420
tcttagtttg	canacatggg	ggactgatca	gctttcttga	atctgtttac	tcttggataa	480
gggatggcaa	aagcagaaaa	a				501

<210> 151

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 151

atggaggggt	gtgtgtctaa	cctaattggc	tgcaacctgg	cctacagccg	gaagctggaa	60
gagttgaagg	agagtattct	ggccgataaa	tnctgnnta	ctacaactga	ccaggacagc	120
agaactgcat	tgactggggc	atgctcagct	ggacatacag	aaattgttga	atttttgttg	180
caacttggag	tgccagtga	tgataaagac	gatgcaggtt	ggtctcctct	tcatattgag	240
gcttctgctg	gcccgggatga	gattgtaaaa	gcccttctgg	gaaaagggtg	tcaagtgaat	300
gctgtcaatc	aaaatggctg	tactccctta	cattatgcag	cttcgaaaaa	caggcatgag	360
atcgctgtca	tgttactgga	aggcggggct	aatccagatg	ctaaggacca	ttatgaggct	420
acagcaatgc	accgggcagc	agccaagggt	aacttgaaga	tgattcatat	ccttctgtac	480
tacaaagcat	ccacaaacat	c				501

<210> 152

<211> 501

<212> DNA

<213> Homo sapien

<400> 152

gcccgcgaa	gcccgcgcag	aactgtactc	tccgagaggt	cgttttcccg	tccccgagag	60
caagtttatt	tacaaatggt	ggagtaataa	agaaggcaga	acaaaatgag	ctgggctttg	120
gaagaatgga	aagaaggact	gcctacaaga	gctcttcaga	aaattcaaga	gcttgaagga	180
cagcttgaca	aactgaagaa	ggaaaagcag	caaaggcagt	ttcagcttga	cagtctcgag	240
gctgcgctgc	agaagcaaaa	acagaagggt	gaaaatgaaa	aaaccgaggg	tacaaacctg	300
aaaagggaga	atcaaagatt	gatggaaata	tgtgaaagtc	tgagaaaaac	taagcagaag	360
atttctcatg	aacttcaagt	caaggagtca	caagtgaatt	tccagggaag	acaactgaat	420
tcaggcaaaa	aacaaataga	aaaactggaa	caggaaactta	aaagtgtaaa	tctgacttga	480
aagaagcaac	aactggcatc	t				501

<210> 153
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

```
<400> 153
agagagagag agagagagag gagcgagaga gtgtgagcga gaaagaataa aaggaaagaa      60
gattttctct atgtatataa agatggccac gttagcaaac ggacaggctg acaacgcaag      120
cctcagtacc aacgggctcg gcagcagccc gggcagtgcc gggcacatga acggattaag      180
ccacagcccg gggaacccgt cgaccattcc catgaaggac cacgatgcca tcaagctggt      240
cattgggcag atccccgcga cctggatgag aaggacctca agcccctctt cgaggagttt      300
ggcaaaatct acgagcttac ggttctgaag gacaggttca caggcatgca caaaggctgc      360
gccttcctca cctactgcga gcgtgagtcg gcgctgaagg cccagagcgc gctgcacgag      420
cagaagactc tgcccgggat gaacccggcc cgatccnagg tgaagccttg cggacagcga      480
gaaccgagga gatagaaact c                                     501
```

<210> 154
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

```
<400> 154
ttccttcctg tgtgaggccg gctgagggca cttgctcttg ctgtttctgc ccctgggtta      60
acattcaaga tggtagatgc tgaagccttt tctcgtcctt tgagtcggaa tgaagttggt      120
ggtttaattt tccgtttgac aatatattgg gtagtgacat actttactat caaatggatg      180
gtagatgcaa ttgatccaac cagaaagcaa aaagtagaag ctcaaaaaca ggcagaaaaa      240
ctaataaagc aaattgggag tgaaaaaatgt gaagctctca gaatatgaaa tgagtattgc      300
tgctcatctt gtagaccctc ttaatatgca tgttacttgg agtgatatag cagggtttaga      360
tgatgtcatt acggatctga aagacacagt catcttacct atcaaaaaga aacatttggt      420
tgagaattcc aggtctctgc agcctccaaa aggtgntctt ctctatgggc ctccagctgt      480
ggtaaaacgt tgattgccaa g                                     501
```

<210> 155
 <211> 601
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(601)
 <223> n = A,T,C or G

<400> 155

<400>	157						
caccctcttc	gtcgtcttcg	ccagtgtgtc	gggctgggcc	ctgacaagcc	acctgaggag		60
aggctcggag	ccgggcccg	acccggcgga	ttgccgccg	cttctctcta	gtctcacgag		120
gggtttccg	cctcgcacc	ccacctctgg	acttgcttt	ccttctcttc	tccgcgtgtg		180
gagggagcca	gcgcttanc	cggagcgagc	ctgggggccg	ccgcgcgtga	agacatcgcg		240
gggaccgatt	caccatgnag	ggcgccggcg	gngcgaaacga	caagaaaaag	ataagttctg		300
aacgtcgaaa	agaaaagtct	cgagatgcag	ccanatctcg	gcgaagtaaa	gaatctgaag		360
ttttttatga	gcttgctcat	cagttgccac	ttccacataa	tgtgagttcg	catcttgata		420
angcctcttg	tgatgagct	taccatcagc	tatttgcggtg	tgaggaaact	tctggatgct		480
ggtgatttg	atattgaaga	t					501

<210> 158
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

```
<400> 158
acgggggtcac ccacacggtg cccatctacg agggctacgc cctcccccac gccatcctgc      60
gtctggacctt ggtggccgg gacctgaccg actacctcat gaagatcctc actgagcgag      120
gctacagctt caccaccacg gccgagcggg aaatcgtgcg cgacatcaag gagaagctgt      180
gctacgtcgc cctggacttc gagcaggaga tggccaccgc cgcatacctcc tcttctctgg      240
agaagagcta cgagctgccc gatggccagg tcatcaccat tggcaatgag cgggttccgg      300
gtccggaggc gctgttccag ccttcccttc tgggtatgga atcttgccgn attcacgana      360
ccaccttcaa ctccatcatg aagtgtgacg tggacatccg caaagacctg tacgccaaca      420
ccgtgctgtc gggcggnacc accatgtacc cgggcattgc cgacaggatg caaaaaggag      480
atcacccgcc cttggcgccc a                                     501
```

<210> 159
 <211> 501
 <212> DNA
 <213> Homo sapien

```
<400> 159
cgagcgggac tggctgggtc ggttgggctg ctggtgcgag gagccgcggg gctgtgctcg      60
gcgcccaagg ggacagcgcg tgggtggccg aggatgctgc ggggcggtag ctccggcgcc      120
cctagctggt gactgctgcg ccgtgcctca cacagccga ggcgggctcg gcgcacagtc      180
gctgtccgc gcgcgcgcc ggccgcgcgc caggtgctga cagcgcgaga gagcgcggcc      240
ctcaggagca aggcgaatgt atgacaacat gtccacaatg gtgtacataa aggaagacaa      300
gttggagaag cttacacagg atgaaattat ttctaagaca aagcaagtaa ttcaggggct      360
ggaagctttg aagaatgagc acaattccat tttacaaagt ttgctggaga cactgaagtg      420
tttgaagaaa gatgatgaaa gtaatttggg ggaggagaaa tcaaacatga tccggaagt      480
actggagatg ttggagctcg g                                     501
```

<210> 160
 <211> 487
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(487)
 <223> n = A,T,C or G

```
<400> 160
aagatctcag tctgactctt ttggaacaag tcaaaactgcc catgatgttg ctgatcagcc      60
aaggcctgga tcagagggga gcttctgtgc atcttcaaac tctccaatgc actcccaagg      120
ccagcagttc tctggtgtct cccaacttcc tggacctgtg ccacttcagg agtaactgat      180
acacagaata ctgtaaataat ggccaagca gatacagaga aattgagaca gcggcagaag      240
ttacgtgaaa tcattctcca gcagcaacag cagaagaaga ttgcaggtcg acaggagaag      300
gggtcacagg actcaccgcg agtgccttca tccanggcct ctttaacact ggcaaccaag      360
```

```

agaatggtta acccaggctt ttaaccaana acccccacct tccttttctt gggggaacat 420
ttaggtcttc ctggttgcc ccttcctttt anggaacctt anaatttgct tggtttttcc 480
ccnaaaa 487

```

```

<210> 161
<211> 501
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

```

```

<400> 161
ggttcccggc ccagtcccg tctgcagcag tctgctctct ctttcaacat gacagatgcc 60
gctgtgtcct tcgccaagga ctctctggca ggtggagtgg ccgcagccat ctccaagacg 120
gcggttagcg ccatcgagcg ggtcaagctg ctgctgcagg tgcagcatgc cagcaagcag 180
atcactgcag ataagcaata caaaggcatt atagactgcg tggccgtat tcccaaggag 240
cagggagttc tgtccttctg gcgcggtaac ctggccaatg tcatcagata cttccccacc 300
caggctctta acttcgcctt caaagataaa tacaagcaga tcttcctggg tgggtgtggac 360
aagagaacct agttttggcg ctacttttga gggaatctgg catcgggtgg tgcgcangg 420
gccacatccc tgtgttttgt gtaccctctt gattttgcc gtaccctgtt ancanctgat 480
gtggggtaaa agctggagct g 501

```

```

<210> 162
<211> 501
<212> DNA
<213> Homo sapien

```

```

<400> 162
gaaaaagaaa aagaactaca acggcagaaa gaaaaggaaa aagaactaca aaagatgaaa 60
gaacaagaaa aggaatgtga gctggagaag gaaagggaag aattagagga gaaaattgaa 120
ccagagagaa ctaattttaga gcccatggtg gaaaaacaag aaagtgaaga cagctgtaat 180
aaagaggagg aaccogtttt cactagacaa gacagcaatc gcagtgaaga ggaagccaca 240
ccagtgggtg atgaaacaga accagaatca ggggtctcaac ctgcggccggc tgtattatct 300
ggctatttca aacagtttca gaagtcttta cctccacgat tccagcgga gcaggaacag 360
atgaaacagc agcagtggca gcagcagcaa cagcaagggt tacttccaga ctgttccttc 420
caaccgtcca gtagtactgt cctcctccc cacacagacc tcttttcagc ctatgcagcc 480
tctcctcagc atttggtctt t 501

```

```

<210> 163
<211> 501
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G

```

```

<400> 163
gagctcgacc agttgcctga cgagagctct tcagcaaaag ccttggtcag tttaaaagaa 60
ggaagcttat ctaacacgtg gaatgaaaag tacagttctt tacagaaaac acctgtttgg 120

```

```

aaaggcagga atacaagctc tgctgtggaa atgccttttc agaaattcaa aacgaagtcg      180
acttttttct gatgaagatg ataggcaaat aaatacaagg tcacctaaaa gaaaccagag      240
gggttgcaatg gttccacaga aattttacagc aacaatgtca acaccagata agaaagcttc      300
acagaagatt gggttttcgat tacgtaatct gctcaagctt cctaaagcac ataaatgggtg      360
tatatacgag tggttctatt caaatataga taaaccactt tttgaagggtg ataatgactt      420
ttgtgtatgt ctaaagggaat ctttttcta tttgaaaacaa gaaagttaac aagagtagaa      480
tggggaaaaa ttcngcggct t

```

<210> 164

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 164

```

cgggtgcgcg cccacgaccg ccagactcga gcagtctctg gaacacgctg cggggctccc      60
gggcctgagc caggtctgtt ctccacgcag gtgttcgcgc cgccccgttc agccatgtcg      120
tccggcatcc atgtagcgct ggtgactgga ggcaacaagg ggcatcggct tggccatcgt      180
gcgcgacctg tgccggctgt tctcggggga cgtggtgctc acggcgcggg acgtgacgcg      240
gggccaggcg gccgtacagc agctgcaggc ggagggcctg agcccgcgct tccaccagct      300
ggacatcgac gatctgcaga gcatccgcgc cctgcgcgac ttcctgcgca aggagtacgg      360
gggcctggac gtgctgggtc acaacgcggg catcgccttc aaggttgctg atcccacacc      420
ctttcatatt caagctgaag tgacgatgaa aacaaatttc tttggtacct ganatgtgtg      480
cacagaatta ctccctctaa t

```

<210> 165

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 165

```

ccggtgaagg accgcgaggc cttccagagg ctcaacttcc tgtaccaggt gagtctgcga      60
caagggcccc acggggacgg tgctcggcgt ccagagtgga ctgctccctt ccgcaggcc      120
gccattgtg tcttgccca ggaccccgag aaccangcgc tggcgagggt ttactgctac      180
actgagagga ccattgcgaa gcggctcgtc ttgcggcggg atccctcggt gaagaggact      240
ctctgtcgag gctgctcttc cctcctcgtc ccgggcctca cctgcacca ccgccagaga      300
cgctgcaggg gacagcgctg gaccgtacag acctgcctaa catgccagcg cagccaacgc      360
tnnctcaatg atccnnggca tttactntgg ggagacnggn ctgaggccca actcgggagc      420
caagcagatt ccaaaccact acaacccttg ccaaacacag cccactccat ttcagaccgc      480
cttctgagg agaaaatgca g

```

<210> 166

<211> 412

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(412)

<223> n = A,T,C or G

<400> 166

atgtccaagc	cggtggacca	cgtaacggc	cccatgaacg	ccttcattgt	gtggtcgcgg	60
gctcagcggc	gcaagatggc	ccaggagaac	ccaagatgc	acaactcgga	gacagcaag	120
cgcttgggcg	ccgagtggaa	actgctcaca	gagtcggaga	agcggccgtt	catcgacgag	180
gccaaagcgtc	tacgcgccat	gcacatgaag	gagcaccg	actacaagta	ccggccgcgg	240
cgcaagccca	agacgtgtct	caagaaggac	aagtctgcct	tcccgggtgcc	ctacggcctg	300
ggcggcggtg	cggaacccga	gcaccctgcg	ctcaaggcgg	gcgcggggct	gcacgcgggg	360
gcgggcggcg	gnctgggtgcc	tgagtcgctg	ctcgccaatc	ccgagaaggc	gg	412

<210> 167

<211> 501

<212> DNA

<213> Homo sapien

<400> 167

aaatgcaagt	tgatctggag	aaagaattac	aatctgcttt	taatgagata	acaaaactca	60
cctcccttat	agatggcaaa	gttccaaaag	atttgcctctg	taatttgga	ttggaaggaa	120
agattactga	tcttcagaaa	gaactaaata	aagaaagtgtg	aagaaaaatg	aagctttgcg	180
ggaagaagtc	attttgcttt	cagaattgaa	atctttacct	tctgaagtag	aaaggctgag	240
gaaagagata	caagacaaat	ctgaagagct	ccatataata	acatcagaaa	aagataaatt	300
gtttttctgaa	gtagttcata	aggagagtag	agttcaagggt	ttacttgaag	aaattgggaa	360
aacaaaagat	gacctagcaa	ctacacagtc	gaattataaa	agcactgac	aagaattcca	420
aaatttcaaa	acccttcata	tggactttga	gcaaaaagtat	aagatggtcc	ttgaggagaa	480
tgagagaatg	aatcaggaaa	t				501

<210> 168

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 168

ggggcccgcg	gagctcgcgc	caggctcctg	ggaaaggacg	gggagtgtta	ccggggagca	60
gctgctccat	tgtgcctcga	ggccccgac	gggctaggcc	gacggcctcc	ctcccttcac	120
ctttcctctc	ctggcggggt	tcggcgcgcg	gcgagtgaact	tgcggccacg	cctgaaaggc	180
gactctcctg	attcaagatg	accaacgaag	aacctcttcc	caagaagggt	cgattgagtg	240
aaacagactt	caaagttatg	gcaagagatg	agttaattct	aagatggaaa	caatatgaag	300
catatgtaca	agctttggag	ggcaagtaca	cagatcttaa	ctctaatgat	gtaactggcc	360
taagagagtc	tgaagaaaaa	ctaaagcaac	aacagcagga	gtctgcacgc	agggaaaaca	420
tccttgtaat	gcgactagca	accaaggaac	aagagatgca	agagtgtact	acttaaatcc	480
agtacctcaa	gcaagtccan	c				501

<210> 169

<211> 501

<212> DNA

<213> Homo sapien

<400> 169

```

gctgtgcgcc ggtcccgcc cggcgatgt tcccgggcac tccctgagta gcggcagctt    60
atccccgcc cgtagcccg ccttggtccc cggctcgtc gctggtggc gcggccccgg    120
ccccgctctg cgtcgcccc gcccggttg aggcgcgcga gggggacgc gccggggatg    180
agcggattgc ggtgaaact gccgcccgg ggccccgcga agccgtgagc cgtgctttt    240
ctccgagtcg ccgcctgcc cttggatttg agatcatgt catccacatc gtggcgctgg    300
ggaacgaggg ggacacattc caccaggaca accggcgcgc ggggcttatc cgcacttacc    360
tggggagaag cctctgtgtc tccggggacg agagcagctt gttgctgaac gcggccagca    420
cggtcgcgcg tccgtgtgtc accgagtatc aggcagtgcc gtttggaat gtcaaagctg    480
gtggtccacg actgtccgt c

```

<210> 170

<211> 501

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 170

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gcatcctctt gccgttcccg gtgtttgggc cttgcctgtg acggtgggaa aagaaaatgg    60
ccttgctgtg ctacaaccgg ggtggtccgc agcgttcga tcctgagacc aattccgacg    120
atgcttgac ataccacca ggtgttccgg tctttcacga tgcattaaag ggttggctctt    180
gctgtaagag aagaacaact gatttttctg atttcttaag cattgtaggc tgtacaaaag    240
gtagacataa tagtgagaag ccacctgagc cagtcaaacc tgaagtcaag actactgaga    300
agaaggagct atgtgaatta aaacccaaat ttcangaaca catcattcaa gccctaagc    360
cagtagaagc aataaaaaga ccaagccag atgaaccaat gacaaatttg gaattaaaaa    420
tatctgcctc ctaaaaacaa gcaattgata aacttaaact gtcacaggg aatgaagaaa    480
atnagaaaga agaagacnat g

```

<210> 171

<211> 601

<212> DNA

<213> Homo sapien

<400> 171

```

agcgacctat cttgaactcc acagccttga tgacttctac ataggaaagt attttggagg    60
agtgttgag tattttatga ttcaagcctt aaatcagaag acaagtgaag aaatgaagaa    120
aagaaaaatg agcaactcct ttcattggaat tagaccacct caacttgaa aaccagaaaa    180
aatgcctgtc ttaaaggctg aagcgtcaca ttataactct gacttaaata acttgctgtt    240
ctgctgccag tgtgtggacg tggattttta caaccccaat ttaaagaaag ttgtagaggc    300
ccacaagatc gttctctgcg ctgtaagcca tgttttcatg ctgcttttca atgtgaagag    360
tcccactgac attcaggatt ccagtatcat ccgaactacc caggatcttt ttgctataaa    420
cagagatact gcatttccag gtgctagcca tgaatcttca ggcaaccac cattacgagt    480
cattgttaaa gacgcctct tctgttcttg tttatcagac atccttcgct tcatttatc    540
aggtgctttt cagtgggaag aattggaaga agatatcagg aagaagtga aagattctgg    600
g

```

<210> 172

<211> 501
 <212> DNA
 <213> Homo sapien

<400> 172
 gaccgttttaa aaaactggta tccagctcac atagaagaca ttgactacga ggaaggaaaa 60
 gtactcatcc atttcaagcg ttggaaccat cgttatgatg agtggttctg ctgggacagt 120
 ccttattttac gcccttttaga gaaaatacag ctgaggaaaag agggcttgca tgaagaggat 180
 ggatcttctg aatttcaaat aaatgagcag gtcttctgtt gctggtctga ttgtcgtttt 240
 taccggcca aagtcactgc tgttaacaag gatggtactt acaactgtgaa attttatgat 300
 ggagtagttc agactgtcaa acatattcat gtcaaagctt ttccaaaga tcagaatatt 360
 gtgggtaatg ctaggcctaa agaaacagat cacaaaagtc tttcatcatc tctgataaa 420
 cgagagaagt ttaaagaaca gagaaaagca acagtgaatg tgaagaaaga caaagaagat 480
 aaacccttaa agacagaaaa g 501

<210> 173
 <211> 501
 <212> DNA
 <213> Homo sapien

<400> 173
 gcgacctatc ttgaactcca cagccttgat gacttctaca taggaaagta ttttgaggga 60
 gtgttgaggt attttatgat tcaagcctta aatcagaaga caagtgaata aatgaagaaa 120
 agaaaaatga gcaactcctt tcatggaatt agaccacctc aacttgaaca accagaaaaa 180
 atgcctgtct taaaggctga agcgtcacat tataactctg acttaaataa cttgctgttc 240
 tgctgccagt gtgtggacgt ggtatttttac aaccccaatt taaagaaagt tgtagaggcc 300
 cacaagatcg ttctctgcgc tgtaagccat gttttcatgc tgcttttcaa tgtgaagagt 360
 cccactgaca ttcaggattc cagtatcatc cgaactacct aggatctttt tgctataaac 420
 agagatactg catttccagg tgctagccat gaatcttcag gcaaccacc attacgagtc 480
 attgttaag acgcctctt c 501

<210> 174
 <211> 501
 <212> DNA
 <213> Homo sapien

<400> 174
 ccccgaggag cgggcgctcg gggcagccg cgaagatgcc gttggaactg acgcagagcc 60
 gagtgcagaa gatctgggtg cccgtggacc acaggccctc gttgcccaga tcctgtgggc 120
 caaagctgac caactcccc accgtcatcg tcatggtggg cctccccgcc cggggcaaga 180
 cctacatctc caagaagctg actcgtacc tcaactggat tggcgtcccc acaaaagtgt 240
 tcaacgtcgg ggagtatcgc cgggaggtcg tgaagcagta cagctcctac aacttcttc 300
 gcccgcacaa tgaggaaagc atgaaagtcc ggaagcaatg tgcttagct gccttgagag 360
 atgtcaaaag ctacctggcg aaagaagggg gacaaattgc ggttttcgat gccaccaata 420
 ctactagaga gaggagacac atgatacttc attttgccaa agaaaatgac ttttaaggcgt 480
 ttttcatcga gtcggtgtgc g 501

<210> 175
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 175

ccaacatgac	cgaacgaaga	agggacgagc	tctctgaaga	gatcaacaac	ttaagagaga	60
aggatcatgaa	gcagtcggag	gagaacaaca	acctgcagag	ccaggtgcag	aagctcacag	120
aggagaacac	cacccttcga	gagcaagtgg	aaccaccccc	tgaggatgag	gatgatgaca	180
tcgagctccg	cgggtgctgca	gcagctgctg	ccccaccccc	tccaatagag	gaagagtgcc	240
cagaagacct	cccagagaag	ttcgatggca	accagacat	gctggctcct	ttcatggccc	300
agtgccagat	cttcattggaa	aagagcacca	gggatttctc	agttgatcgt	gtccgtgtct	360
gcttcgtgac	aagcatgatg	accggccgtg	ctgccgttgg	gcctcagcaa	agctggagcg	420
ctccactacc	tgatgcacaa	ctaccacctt	tcatgatgga	aatgaagcat	gtctttgaag	480
accctcanag	gcgagaggtt	g				501

<210> 176

<211> 378

<212> DNA

<213> Homo sapien

<400> 176

ggcggaagag	gtgatttatt	atatggttgt	tacactcggc	cacaaataaa	cacagaaata	60
gtccagaatg	tcacaggtcc	agggcagagg	accaacatgg	gcattttgtt	tatgagcaag	120
gtgggtctca	gaggtgatcg	gcgatcagag	ggcgatgaag	ttctagatcc	attgagacaa	180
gctctagaca	gtagcatgca	gtcccacaac	ttgtaccagc	atccccagcg	tctggcattc	240
catgtttctg	ctcctgtggc	ctccacgggtg	caacaagcta	gcggtttact	tggacctctg	300
cctcatcttt	cttcttttgc	gcttcagcct	gcgcattcgc	ttcttcctcc	acttggctct	360
catggcgag	aggtttcc					378

<210> 177

<211> 501

<212> DNA

<213> Homo sapien

<400> 177

ggcaggagc	tggacctgga	ggcgccgcgc	cgacagcagc	agccatggag	gacgagatgc	60
ccaagactct	atacgtcggg	aacctttcca	gagatgtgac	agaagctcta	attctgcaac	120
tctttagcca	gattggacct	tgtaaaaact	gcaaatgat	tatggataca	gctggaaatg	180
atccctattg	ttttgtggag	tttcatgagc	atcgtcatgc	agctgcagca	ttagctgcta	240
tgaatggagc	gaagataatg	ggtaagggaag	tcaaagtga	ttgggcaaca	accctagca	300
gtcaaaagaa	agatacaagc	aatcatttcc	atgtctttgt	tggatgctc	agcccagaaa	360
ttacaactga	agatataaaa	gctgcttttg	caccatttgg	aagaatatca	gatgcccgag	420
tggtaaaaga	catggcaaca	ggaaagtcta	agggatatgg	ctttgtctcc	tttttcaaca	480
aatgggatgc	tgaaaacgcc	a				501

<210> 178

<211> 501

<212> DNA

<213> Homo sapien

<400> 178

agccccgggc	cagggccgcg	ccggggcagg	agcgagggg	ctttgttatg	cacctaaagc	60
catattggaa	gctccagaag	aaagagcacc	ccccggaagt	cagcagggaa	acgcagagaa	120
ctcctatgaa	ccaccaaag	gctgtaaatg	atgaaacatg	caaagctagc	cacataacat	180
caagtgtctt	tccttcagcc	tctctcggtg	aagcatcatc	tcgaaagcca	tttgggatcc	240

tttctccaaa	tgttctgtgc	agtatgagtg	ggaagagtc	tgtagagagc	agcttgaatg	300
ttaaaaccaa	aaagaatgca	ccatctgcaa	cgatccacca	ggcggaagaa	gaaggaccac	360
ttgatatctg	ggctgttggt	aaacctggaa	ataccaagga	aaaaattgca	ttctttgcat	420
cccaccagtg	tagtaacagg	ataggatcta	tgaaaataaa	aagttcctgg	gatattgatg	480
ggagagctac	taagagaagg	a				501

<210> 179

<211> 501

<212> DNA

<213> Homo sapien

<400> 179

cgggactagg	agcgcggcgg	ggccggcgcc	agagctgtcc	ggctgcgcgg	tggcccgggg	60
ggcccgggcg	gcagggaag	cagcgcggcc	tcggcctatg	cgaccggtg	cgccgcgcgc	120
gcttctgcct	ggagaggatt	caagatgacc	aacgaagaac	ctcttcccaa	gaagggtcga	180
ttgagtga	cagacttcaa	agttatggca	agagatgagt	taattctaag	atggaaacaa	240
tatgaagcat	atgtacaagc	tttggagggc	aagtacacag	atcttaactc	taatgatgta	300
actggcctaa	gagagtctga	agaaaaacta	aagcaacaac	agcaggagtc	tgcacgcagg	360
gaaaacatcc	ttgtaatg	actagcaacc	aaggaacaag	agatgcaaga	gtgtactact	420
caaatccagt	acctcaagca	agtccagcag	cccgcgcgtt	gccaactgag	atcaacaatg	480
gtagaccag	cgatcaactt	t				501

<210> 180

<211> 571

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(571)

<223> n = A,T,C or G

<400> 180

gagcgtacc	ggttttctcc	atgctgtttc	ttactctcct	cttttgcacc	cctcccattt	60
ccctcgtttt	tctttgaaaa	tttctccccc	ctccagttcg	ctgtccggcc	ctcacatgtg	120
tganaggggc	agtgtgccgt	taatggccgt	gccgggcacc	gggccgctct	ggtagtgctg	180
ggacatgtga	agtctgctgg	ggcgggcggg	ttccggcacc	tcggcgccgg	ggagatacat	240
gctgatcatg	tcccggaggt	ccccggcctg	gcagggcgcc	ctggagtggg	aggaagaggt	300
aaccacaggg	gggctggagc	tggcctcgga	cttgaccacc	gaacccatgg	agccaanagc	360
catgccaggg	gtgccctgct	gcgagtagga	catgctgtag	gtgggcgagc	cgttcatgta	420
ggtctgcgag	ctgggtcatgg	agttgtactg	cagggcgctc	acgtcgtaac	ggtgcatggg	480
ctgcactctg	gctgcgccgt	gcgcattgag	gcccggtg	tgngggtagc	ccaactggtc	540
ctgcactcatg	ctgtactgcc	gntgctccac	c			571

<210> 181

<211> 501

<212> DNA

<213> Homo sapien

<400> 181

tgagaccgcc	aagatggtg	tgggcgcgtt	ccctatggcg	aagctgctat	acttgggcat	60
ccggcaggtc	agcaagccgc	ttgccaaccg	tattaaggag	gccgcccgcc	gaagcgagtt	120
cttcaagacc	tatatctgcc	tcccgcgggc	tcaactgtat	cactgggtgg	agatgcggac	180
caagatgcgc	atcatgggct	tccggggcac	ggtcatcaag	ccgctgaacg	aggaggcggc	240

agccgagctg	ggcgcagagc	tgctgggcca	agccaccatc	ttcatcgtgg	gcggcggctg	300
cctagtgtcg	gagtactggc	gccaccaggc	gcagcagcgc	cacaaggagg	aggagcagcg	360
tgctgcctgg	aacgcgctgc	gggacgaggt	gggccacctg	gcgctggcgc	tggaagcgct	420
gcaggcgcag	gtgcaggcgg	cgccgccaca	gggcgccttg	gaggaactgc	gcacagaact	480
gcaagaggtg	cgcgcccaact	c				501

<210> 182

<211> 501

<212> DNA

<213> Homo sapien

<400> 182

ccccagcaga	catgtttgcc	aaggcctttc	gggtcaagtc	caacacggcc	atcaaggggt	60
cggacaggag	aaagcttcga	gctgatgtga	caactgcttt	ccccaccctt	ggaactgac	120
aagtctctga	gttagtacct	ggaaaggagg	agctcaacat	tgtgaagttg	tatgctcaca	180
aaggggatgc	agtgactgtg	tacgtgagtg	gtggtaaccc	catcctcttt	gaactggaga	240
aaaatctgta	tccaacagtg	tacacgctgt	ggtcctatcc	tgatcttctg	ccaaccttta	300
caacatggcc	tctgggtgctc	gagaaactgg	tagggggagc	agatttgatg	ctgcctggac	360
tggtgatgcc	ccttgctggg	ctgcctcagg	tacagaaggg	cgacctctgt	gccatttctt	420
tggtggggaa	cagagccctt	gtagccattg	gagttgcagc	catgtccaca	gctgagatgc	480
tcacgtcagg	cctgaaggga	a				501

<210> 183

<211> 501

<212> DNA

<213> Homo sapien

<400> 183

atctgtcac	tttagcactc	tggcaattaa	acagaacccc	cttctggcag	aagcttattc	60
gaatttgggg	aatgtgtaca	aggaaagagg	gcagttgcag	gaggcaattg	agcattatcg	120
acatgcattg	cgtctcaaac	ctgatttcat	cgatggttat	attaacctgg	cagccgcctt	180
ggtagcagcg	ggtgacatgg	aaggggcagt	acaagcttac	gtctctgctc	ttcagtacaa	240
tcctgatttg	tactgtgttc	gcagtgacct	ggggaacctg	ctcaaagccc	tgggtcgctt	300
ggaagaagcc	aaggcatgtt	atttgaaagc	aattgagacg	caaccgaact	ttgcagtagc	360
ttggagtaat	cttggtctgt	ttttcaatgc	acaaggggaa	atttggttg	caattcatca	420
ctttgaaaag	ctgtcaccct	tgacccaaac	tttctggatg	cttatatcaa	tttaggaaat	480
gtcttgaaaag	agcacgcatt	t				501

<210> 184

<211> 501

<212> DNA

<213> Homo sapien

<400> 184

agttctccca	ggagaaagcc	atgttcagtt	cgagcgccaa	gatcgtgaag	cccaatggcg	60
agaagccgga	cgagttcgag	tccggcatct	cccaggctct	tctggagctg	gagatgaact	120
cggacctcaa	ggctcagctc	agggagctga	atattacggc	agctaaggaa	attgaagttg	180
gtgggtggctg	gaaagctatc	ataatctttg	ttcccgttcc	tcaactgaaa	tctttccaga	240
aaatccaagt	ccggttagta	cgcgaattgg	agaaaaagtt	cagtgggaag	catgtcgtct	300
ttatcgctca	gaggagaatt	ctgcctaagc	caactcgaaa	aagccgtaca	aaaaataagc	360
aaaagcgtcc	caggagccgt	actctgacag	ctgtgcacga	tgccatcctt	gaggacttgg	420
tcttcccaag	cgaaattgtg	ggcaagagaa	tccgcgtcaa	actagatggc	agccggctca	480
taaaggttca	tttggacaaa	g				501

<210> 185
 <211> 460
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(460)
 <223> n = A,T,C or G

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<400> 185
gcacaaaatg gcggcggcgg cgggcggcggc tgggtgctgca gggtcggcag ctcccgcggc      60
agcggccggc gccccgggat ctggggggcg accctcaggg tcgcaggggg tgctgatcgg      120
ggacaggctg tactccgggg tgctcatcac cttggagaac tgccctcctgc ctgacgacaa      180
gctccgtttc acgcggtcca tgtcgagcgg cctcgacacc gacacagaga cgcacctccg      240
cgtgggtggg tcgagactca tccaggcggc cgggtatcctg ctccgcctgc cgcagggtgg      300
catggctacc gggcagggtg tgttccagcg gttcttttat accaagtect tcgtgaagca      360
ctccatggag catgtgtcaa tggcctgtgt ccacctggct tccaagatag aagangcccc      420
aagaccatac gggacgtcat caatgtgttt caccgccttc      460
```

<210> 186
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

```
<400> 186
cgtgttttgg gccggttctg gagtggctgg cggcggggcc tgggtgtccg cccagtgcc      60
gaggacgcag gctttggcac cgaagcccg catcagaggc aaccccgcg ctctgccaa      120
cggtcggggc cctcgggga ccagcccttc gcggggctgc tgccaaaaaa cctcagtcgg      180
gaggagctgg ttgatgcgct gcgggcagcc gtggtggacc ggaaaggacc tctagtgcg      240
ttgaacaagc cacagggtct accagtga caagaaaccag gagagctgac gttgttctca      300
gtgctgccag agctgagcca gtccctangg ctcaaggagc aggagcttca ggttgtccga      360
ncatctggga agtaagtgg angggtgaca ggaagctang a      401
```

<210> 187
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

```
<400> 187
gcatccgccc tgtctgggag gtggggggcg cgcctctgnc cagccgccac gtctgggaag      60
tggggagccc cactgcccgg ctgccacccc gtctgggagg tgtaccaaac agctcattga      120
gaacggggcca tgatgacgat ggcgggtttt tgaatagaa aagggggaaa tgtggggaaa      180
agaaagagag atcagattgt tactgtgtct gtgtagaaa aagtagacat aggagactcc      240
```

atTTtGttct	gtactaagaa	aaattcttct	tccttgggat	gctgttaatc	tataacctta	300
ccccaaccc	cgTgctctct	gaaacatatg	ctgtgtcaac	tcagggttaa	atggattaag	360
ggcggtgcaa	gatgtg					376

<210> 188
 <211> 376
 <212> DNA
 <213> Homo sapien

<400> 188						
aacctggagc	gcaccttcat	cgccatcaag	ccggacggcg	tgcagcgcg	cctggtgggc	60
gagatcatca	agcgcttcga	gcagaaggga	ttcgcctcg	tgcccatgaa	gttcctccgg	120
gcctctgaag	aacacctgaa	gcagcactac	attgacctga	aagaccgacc	attcttccct	180
gggctgggta	agtacatgaa	ctcaggggccg	gttggtggcca	tggtctggga	ggggctgaac	240
gtggtgaaga	caggccgagt	gatgcttggg	gagaccaatc	cagcagattc	aaagccaggc	300
accattcgTg	gggacttctg	cattcagggt	ggcaggaaca	tcattcatgg	cagtgattca	360
gtaaaaagtg	ctgaaa					376

<210> 189
 <211> 501
 <212> DNA
 <213> Homo sapien

<400> 189						
cccctaccgc	ggagcagcac	catgtcggcg	ccggcggcca	aagtcagtaa	aaaggagctc	60
aactccaacc	acgacggggc	cgacgagacc	tcagaaaaag	aacagcaaga	agcgattgaa	120
cacattgatg	aagtacaaaa	tgaaatagac	agacttaatg	aacaagccag	tgaggagatt	180
ttgaaagtag	aacagaaata	taacaaactc	cgccaaccat	tttttcagaa	gaggtcagaa	240
ttgatcgcca	aaatcccaaa	tttttgggta	acaacatttg	tcaaccatcc	acaagtgtct	300
gcactgcttg	gggaggaaga	tgaagaggca	ctgcattatt	tgaccagagt	tgaagtgaca	360
gaatttgaag	atattaaatc	aggttacaga	atagattttt	attttgatga	aaatccttac	420
tttgaaaata	aagttctctc	caaagaattt	catctgaatg	agagtgggtg	tccatcttcg	480
aagtccaccg	aaatcaaatg	g				501

<210> 190
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 190						
aagttctgaa	gattcatttt	tgtctgccat	tataaattat	actaatagct	ctacagtcca	60
ctttaagttg	ccccctacat	atgtattata	tatggcatgc	cggtatgtat	tgtccaacca	120
gtacagacct	gacatcagcc	ctacagagcg	cacacataaa	gtcattgcag	tcgtcaacaa	180
gatggtgagc	atgatggagg	gtgtcatcca	gaaacagaag	aattattgcag	gggcacttgc	240
cttctggatg	gcaaatgcat	ctgaacttct	caacttcatt	aagcaagacc	gagaccttag	300
tcggatcaca	ctggatgctc	aagatgtttt	agcacatttg	gttcaaattg	catttaaata	360
cttggttcac	tgtcttcaat	cagaacttaa	taattacatg	ccagcctttc	tagatgacct	420
tgaagagaac	agtctgcaac	gacaaaaaat	agatgatgtg	ctgcacacgc	tcacaggagc	480
catgtncctg	ctacgacgct	g				501

<210> 191
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 191
 ttgtgcgtgc tcagccacta ccctttcttn gnccactttc cganagtgtt tgtatactct 60
 caagcgccctg gnngactgct gtagtgagcg ccttctgggc aagaaactgg gcatccctcg 120
 aggcgtacaa agggacacca tgtggcggat ctttactgga tcgctgctgg tagaggagaa 180
 gtcaagtgcc cttctgcatg accttcgaga gattgaggcc tggatctatc gattgctgcg 240
 ctccccagta cccgtctctg ggcagaagcg agtagacatc gaggtcctac cccaagagct 300
 ccagccagct ctgaccttg ctcttcaga cccatctcga ttcaccctag tggatttccc 360
 actgcacctt cccttggaa ttgtaggtgt ggacgcctgt ctccagntgc taacctgcat 420
 tctggtagag cacaaggcgg cgctacagtc ccgagactac aatgcactct ccatgtctgt 480
 gatggcatnc atggcaatga t 501

<210> 192
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 192
 tttganttga accagaagct ccaggaagaa aaacataaaa gcataactga ggcacttagg 60
 agacaggagc agaataataa gagttttgag gagacctatg accgaaagct caagaatgaa 120
 cttctaaaact tccacaggct gcatggtgtc tgcttggtt tgggaatcct catatgactt 180
 tggcaggtgt tggagtttgg aggctcttcg ccacaggagt gcttctatct ccttttggaa 240
 ccaaaagggc agctggtaac agctgggaaa gggagtgaa actgtgaaaa tgtgcctttt 300
 ggtattgcta atccggatat aatgctcttg gcagttggct ctcaggactg tgcttagtcc 360
 ctgagcaciaa aagttcttac cttggttggg ggtgggcaga tggtagaggt ggattggaag 420
 tgaccgtctg attatcattt gggattgagt ctgttgtgtg ctgtgtgaaat ttaatttacc 480
 cctttgctct ttgtgtcagt t 501

<210> 193
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 193

agntttctgc	tctcgectgc	ctgcccgcgc	ccttgcttgc	tcgcgcttgc	gctcgccctc	60
tcctcgagga	tcgaggggac	tctgaccaca	gcctgtgget	gggaagggag	acagaggcgg	120
cggcggctca	ggggaaacga	ggctgcagtg	gtggtagtag	gaagatgtcg	ggcgaggacg	180
agcaacagga	gcaaactatc	gctgaggacc	tggtcgtgac	caagtataag	atggggggcg	240
acatcgccaa	cagggtactt	cggtccttgg	tggaagcatc	tagctcaggt	gtgtcggtag	300
tgagcctgtg	tgagaaaggt	gatgccatga	ttatggaaga	aacagggaaa	atcttcaaga	360
aagaaaagga	aatgaagaaa	ggtattgctt	ttcccaccag	catttcggta	aataactgtg	420
tatgtcactt	ctcccctttg	aagagcgacc	aggattatat	tctcaaggaa	ggtgacttgg	480
taaaaattga	ccttgggggc	c				501

<210> 194

<211> 560

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(560)

<223> n = A,T,C or G

<400> 194

ggcttcactc	tcacaaactc	cttgaatttc	ttctctttat	tcttttccct	gtcttttgta	60
gttgggggaa	tggcanagac	ccgcttccct	gtcagggtct	cctggctggg	cttgtctgaa	120
gctgaagggc	ccctggtttg	gacatgcctc	tttcccgggc	tctcttctgg	ctccagtgc	180
ttctccattc	catggaaata	cttcatgtga	tagtgcaaca	gtttggcttt	gcggaaaaat	240
tttaaacagt	ccacaacttt	gcatctaaac	ttatgggtcta	ggtcgacagc	tggtgcatta	300
natgacccaa	aatcatctgt	tttcttaaaa	gtatttgta	cttccacagt	cgaaatctct	360
tgtaattcca	caaggggaga	agtcggttct	gttttcatcg	tgttttctcc	cattgatggg	420
cagttcaact	ccaagcctgc	agccccgat	ccatcccaa	aggagnggca	agtcagtgc	480
natganacct	ggccagcttc	caaagcagac	ttcaactgac	cttcttcaga	ttccttgta	540
ctanacaacg	tgtcttgcaa					560

<210> 195

<211> 582

<212> DNA

<213> Homo sapien

<400> 195

ggcacctggg	gagaaatgga	tggagaaggg	acctggctgg	aaagcctttg	ccccgtgct	60
ctgctccgcc	cataagagga	cccctgaaat	gtcccgtgca	gtttgttcaa	gtcccctgtg	120
tgatgaaatg	tgccctctgc	cttaccctgt	tgagaatacc	tgtggtgtgg	cagcgagtat	180
tttggtatth	gacctgtcca	aagacgactt	gataacctta	taatgtaaca	gaaaagggtca	240
gaaaatatta	agcaagtaga	agtgtggagc	atattaagca	agatgaacat	ctcgggaagc	300
agctgtggaa	gccctaactc	tgagatata	tctagtgaat	ttaaggacct	ttgggcaaaa	360
ctaaaagaat	gtcatgatag	agaagtacaa	ggtttacaag	taaaagtaac	caagctaaaa	420
caggaacgaa	tcttagatgc	acaaagacta	gaagaattct	tcaccaaaaa	tcaacagctg	480
agggaacagc	agaaagtctt	tcatgaaacc	attaaagttt	tagaagatcg	gttaagagca	540
ggcttatgtg	atcgctgtgc	agtaactgaa	gaacatatgc	gg		582

<210> 196

<211> 401

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 196
 aaaccaaaga atggattgaa gagaagaatc aagctctaaa cacagacaat tatggacatg 60
 atctcgccag tgtccaggcc ctgcaacgca agcatgaggg ctctcgagagg gaccttgagg 120
 ctctcggtga caaggtaaac tcccttggtg aaacagcaga gcgcctgac cagtcccatc 180
 ccgagtcagc agaagacctg caggaaaagt gcacagagtt aaaccaggcc tggagcagcc 240
 tggggaaaacg tgcagatcag cgcaaggcaa agttgggtga ctcccacgac ctgcagcgct 300
 tccttagcga ttccgggac ctcatgtctt ggatcaatgg aatacggggg ttggtgtcct 360
 cagatgagct anccaaggat gtcaccggag ctgangcatt g 401

<210> 197
 <211> 457
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(457)
 <223> n = A,T,C or G

<400> 197
 agtttcccgg accatggcca acctggagcg caccttcatt gccatcaagc cggacggngt 60
 gcanccgggc ctgggtggcg agatcatcaa gcgcttngan cagaagggat tccgcctcnt 120
 ggccatgaan ttctccggg cctctgaana acacctgaag cagcactaca ttgacctgaa 180
 agaccgacca ttcttccctg ggctgggtgaa ntacatgaac tcagggccgg ttgtggccat 240
 ggtctgggag gggctgaacg tggatgaagc aggcagagtg atgcttgggg agaccaatcc 300
 agnagattca aagccaggca ccattcntgg ggacttctgc attcaggttg gnangaacat 360
 nattcatggn agtgattcan taaaaagtgc tgaaaaanaa atcancctat ggnttaagcc 420
 tgaagaactg gttgactaca agtcttngnc tcatgac 457

<210> 198
 <211> 474
 <212> DNA
 <213> Homo sapien

<400> 198
 aggctgaacc cgaggagatg aaccctttaa ctaagggtgaa gctgatcaac gagctgaatg 60
 aacgagaggt ccagcttggtg gtggccgata aggtgtcctg gcaactccgag tacaaggaca 120
 gcgcctggat ctctctggga gggttcctt atgaactgac tgaaggggac atcatctgtg 180
 tgttctcaca atatggggag attgttaaca ttaatctcgt gcgggacaag aaaactggga 240
 aatccaaagg attctgtttc ctctgctatg aagaccagag gagcacaatt ctggcgtctg 300
 acaattttta tgggatcaag atcaaaggaa gaactatccg agtggatcat gtgtctaaact 360
 atcgggctcc taaggactca gaagaaatag atgatgtgac cagacaactc caggagaagg 420
 gctgtggggc tcgtaccccc tcaccaagtt tgtctgagag ctctgaagat gaaa 474

<210> 199
 <211> 574
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(574)
 <223> n = A,T,C or G

<400> 199
 gagaagaac aggaagaaga agaaacgatg cagcaagcga catgggtaaa atacacattt 60
 ccagttaagc atcaggtttg gaaacaaaaa ggtgaagagt acagagtgac aggatatggt 120
 gggtggagct ggattagtaa aactcatgtt tataggtttg ttcttaaatt gccaggcaat 180
 actaatgtga attacagaaa gtogttagaa ggaaatgtga aggagctctt agattctgac 240
 agtgataaac cctgcaagga agaaccaatg gaagtagacg atgacatgaa aacagagtca 300
 catgtaaatt gtcaggagag ttctcaagta gatgtggtca atgttagtga gggttttcat 360
 ctaaggacta gttacaaaaa gaaaacaaaa tcatccaaac tagatggact tcttgaaagg 420
 agaattaac agtttacact ggaagaaaaa cagcgactcg aaaaaatcaa gttggagggt 480
 ggaattaagg gtataaggaa agacttctac aaattcttca aaaaatctct ctgaatcacc 540
 agtaataacc gaaagcaaaa gaanggtgtc agag 574

<210> 200
 <211> 522
 <212> DNA
 <213> Homo sapien

<400> 200
 tccataacct tatggagaga aaggactttg agacatggct tgataacatt tctgttacat 60
 ttctttctct gacggacttg cagaaaaatg aaactctgga tcacctgatt agtctgagt 120
 gggcagtgca gtcaggcat ctctccaata acctagagac tctcctcaag cgggacttcc 180
 tcaaactcct tcccctggag ctcagttttt atttgttaaa atggctcgat cctcagactt 240
 tactcacatg ctgcctcgtc tctaaacagt ggaataagggt gataagtgcc tgtacagagg 300
 tgtggcagac tgcattgtaa aatttgggct ggcagataga tgattctgtt caggacgctt 360
 tgcactggaa gaagggttat ttgaaggcta ttttgagaat gaagcaactg gaggaccatg 420
 aagcctttga aacctcgta ttaattggac acagtgccag agtgtatgca ctttactaca 480
 aagatggact tctctgtaca gggtcagatg acttgctgca aa 522

<210> 201
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 201
 atctcgcct ggttcggccc gcctgcctcc actcctgcct ctaccatgtc catcagggtg 60
 acccagaagt cctacaaggt gtccacctct ggcccccggt ccttcagcag ccgctcctac 120
 acgagtgggc cgggttcccg catcagctcc tcgagcttct cccgagtggg cagcagcaac 180
 ttctcgggtg gcctgggagg cggctatggt ggggccagcg gcatgggagg catcaccgca 240
 gttacgggtc accagagcct gctgagcccc cttgtcctgg aggtggacct caacatccag 300
 gccgtgcgca cccaggagaa ggagcagatc aagaccctca acaacaagtt tgcctccttc 360
 atagacaagg tacggttctt ggagcancag aacaagatgc tggagaccaa gtggagcctt 420
 cttgcagcag cagaagacgg ctccaagcaa catggacaac atgttcnaaa gctacatcaa 480
 caaccttagg cgnagcttga a 501

<210> 202
 <211> 501
 <212> DNA
 <213> Homo sapien

<400> 202
 gcggttctgtg gagagagtgc gaggtcaggc catgaacttg ggagatggtt taaagcttga 60
 aactaaatta ctggatggaa aaaccaagct aatattgtct ccatatgaac ataaatcaaa 120
 aatttctgtg aagatgggaa ataaggccaa gattgcaaaa tgtcctttaa gaacaaaaac 180
 tgggcacatt ctaaaatcaa cacaagatac ttgtattggg agtgaaaaac ttttgcaaaa 240
 gaagccagtt ggttcagaaa catcacaggc aaaagggtgaa aaaaatggaa tgactttttc 300
 atccactaag gatttatgta aacaatgtat agataaagac tgtcttcata tccagaaaga 360
 gatttcacct gcaactccta atatgcagaa gactagaaac accgtaaata catctctagt 420
 aggtaaacag aagcctcaca aaaaacacat cacagctgaa aacatgaaga gcagtttggt 480
 gtgtctaaca caagaccaac t 501

<210> 203
 <211> 395
 <212> DNA
 <213> Homo sapien

<400> 203
 cttcattcatt gcagactcct tcctacatca tgcgtatcgt tttcattata cactttgtgc 60
 cactttgtctg ctagccttca agggattgca cagctacttc attacagtaa cagaagagat 120
 tccttcttgt cagaaactag aactggccaa ggccaacatg cagctcctat atgagcgtct 180
 tctcagaaga aaacagctac gaacacagaa agacaacatg ctgagaggaa tggatgtaga 240
 agctcgactt actgaactat gtgaagaagt taagaaaata gagaatcctg atgaactggc 300
 agaacttata aatatgaatc ttgcgcaact ttgctcactt ttgatggctt tatggggaca 360
 gtttctggaa gttataacgc tacacgaaga actaa 395

<210> 204
 <211> 501
 <212> DNA
 <213> Homo sapien

<400> 204
 aggtcaggca gaaattggag agggggctca aaagctgctg cggcccaaca gcttgagact 60
 ggcaagtgac tcagatgcag agtcagactc tcgggcaagc tctcccaact ccaccgtctc 120
 caacaccagc accgaggggt tcgggggcat catgtctttt gccagcagcc tctatcggaa 180
 ccacagtaac agcttcagtc tttcaaacct cacactgccc accaaagggtg cccgagagaa 240
 ggccacgccc tccccagtc tgaaaggaaa caggagggcg ttagtggtatc agaagtcatc 300
 tgtcattaaa cacagcccaa cagtgaaaaag agaacctcca tcaccccagg gtcgatccag 360
 caattctagt gagaaccagc agttcctgaa ggaggtggtg cacagcgtgc tggacggcca 420
 gggagttggc tggctcaaca tgaaaaaggt gcgcgggtg ctggagagcg agcagctgcg 480
 agtctttgtc ctgagcaagc t 501

<210> 205
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)

<223> n = A,T,C or G

<400> 205

cagaagtgca	gcggtggcgg	cggtctggtt	cgggccggcg	gcgggctggc	ggagatggag	60
gatcttggtc	aagatggggg	ggcttcacca	gctacccctg	ggaccgggaa	atctaagaat	120
tggagaaaga	aattgaagaa	ctcagatcaa	aacctgttac	tgaaggaaact	ggtgatatta	180
ttaaggcatt	aactgaacgt	ctggatgctc	ttcttctgga	aaaagcagag	actgagcaac	240
agtgtctttc	tctgaaaaag	gaaaaatata	aaatgaagca	agagggttgg	gattctgtaa	300
caaagatggg	agatgcacat	aaggagttgg	aacaatcaca	tataaactat	gtgaaagaaa	360
ttgaaaattt	gaaaaatgag	ttgatggcag	tacgttccaa	atacagtga	gacaaagcta	420
acttacaaaa	ncagctggaa	naagcaatga	atacncaatt	agaactttca	naacaactta	480
aatttcanaa	caactctgaa	g				501

<210> 206

<211> 599

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(599)

<223> n = A,T,C or G

<400> 206

tggtcgacc	agctctctgc	tctcccagcg	cagcgccgccc	gcccggcccc	tccagcttcc	60
cggaccattg	ccaacctgga	gcgcaccttc	atcgccatca	agccggacgg	cgtgcagcgc	120
ggcctgggtg	gcgagatcat	caagcgcttc	gagcagaagg	gattccgcct	cgtggccatg	180
aagttcctcc	gggcctctga	agaacacctg	aagcagcact	acattgacct	gaaagaccga	240
ccattcttcc	ctgggctggt	gaagtacatg	aactcagggc	cggttgtggc	catggtctgg	300
gaggggctga	acgtggtgaa	gacaggccga	gtgatgcttg	gggagaccaa	tccagcagat	360
tcaaagccag	gcaccattcg	tggggacttc	tgcattcagg	ttggcaggaa	catcattcat	420
ggcagtgatt	cagtaaaaag	tgctgaaaaa	gaaatcagcc	tatggtttaa	gcctgaagaa	480
ctggttgact	acaagtcttg	tgctcatgac	tgggtctatg	aataagaggt	ggacacaaca	540
gcagtctcct	tcacacggcg	tggtgtgtcc	tggacacagt	nttattcttg	acttaaagc	599

<210> 207

<211> 395

<212> DNA

<213> Homo sapien

<400> 207

cggccggggc	cgagggtcgg	cggccgcccg	cgggccgggg	ccgcgcacag	cgcccgcagt	60
tacaacatga	tggagacgga	gctgaagccg	ccgggcccgc	agcaaacttc	ggggggcggc	120
ggcggcaact	ccaccgcggc	ggcggccggc	ggcaaccaga	aaaacagccc	ggaccgcgtc	180
aagcggccca	tgaatgcctt	catggtgttg	tcccgcgggc	agcggcgcaa	gatggcccag	240
gagaacccca	agatgcacaa	ctcggagatc	agcaagcgcc	tgggcgcccga	gtggaaactt	300
ttgtcggaga	cggagaagcg	gccgttcac	gacgaggcta	agcggctgcg	agcgtgcac	360
atgaaggagc	acccgatta	taaataccgg	ccccg			395

<210> 208

<211> 398

<212> DNA

<213> Homo sapien

<400> 208
 aggetctcca agccctgctg ttatatTTTT ccaggagggga ggggcgattc tgccttgttt 60
 gcagtgaatg gtttcaatat gctcatcaat ggcgatcag agagaaaatc ctgcttctgg 120
 aagctcatcc gacacttaga ccgagtggac tccatcctgc tcaccacat tggggatgac 180
 aatttgctg gaataaacag catgttacag cggaaaattg cagagctcga ggaagaacag 240
 tcccagggct ccaccacaaa tagtgactgg atgaaaaacc tcctctcccc tgacttagga 300
 gttgtatttc tcaatgtacc tgaaaatctc aaaaatccag agccaaacat caagatgaag 360
 agaagcatag aagaagcctg cttcactctc cagtacct 398

<210> 209
 <211> 501
 <212> DNA
 <213> Homo sapien

<400> 209
 gcgcagcctc ctgggagttg tagtcgcgat cctgaggtaa cggataagtt tataccatgg 60
 atagcacaaa ggagaagtgt gacagttaca aagatgatct tctgcttagg atgggactta 120
 atgataataa agcaggaatg gaaggattag ataaagagaa aattaacaaa attataatgg 180
 aagccacgaa ggggtccaga ttttatggaa atgagctcaa gaaagaaaag caagtcaacc 240
 aacgaattga aaatatgatg caacaaaaag ctcaaatac cagccaacag ctaagaaaag 300
 cacaattaca ggttgacaga tttgcaatgg aattagaaca aagccgaaat ttgagcaata 360
 ccatagtgca cattgacatg gatgctttct atgcagctgt agaaatgagg gacaatccag 420
 aattgaagga taaaccatt gctgtaggat caatgagtat gctgtctact tcaaattacc 480
 atgcaaggag atttggtgtt c 501

<210> 210
 <211> 450
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(450)
 <223> n = A,T,C or G

<400> 210
 cggaacaagt gcagaacagg ataatcggtt cagcaacaaa cagaagaaac tactgaagca 60
 gctgaaatTT gcagaatgcc tagaaaaaaa ggtggacatg agcaaagtaa atttgagggt 120
 tataaagcct tggataacaa aaagagtaac ggaaatcctt gggtttgaag atgatgttgt 180
 gattgagttt atattcaacc agctggaagt gaagaatcca gactccaaaa tgatgcaaat 240
 caacctgact ggatttttga atggaaaaaa tgctcgagaa tttatgggag aactgtggcc 300
 cctgctgcta agtgcacaag aaaacatcgc gggaatccct tctgctttcc tagaactgaa 360
 gaaagaagaa ataaaacaaa gacagattga acaagaaaaa ctggcatcta tgaaaaagcn 420
 agatgaagac caagattaaa gagaaangga 450

<210> 211
 <211> 601
 <212> DNA
 <213> Homo sapien

<400> 211
 cttagagcag ctggaacagg ccaagcggtt caaagcaaat cttagagaaga acaagcaggg 60
 cctggagaca gataacaagg agctggcgtg tgaggtgaag gtcctgcagc aggtcaaggc 120
 tgagtctgag cacaagagga agaagctcga cgcgaggctc caggagctcc atgccaaggt 180

ctctgaaggc	gacaggetca	gggtggagct	ggcggagaaa	gcaagtaagc	tgcagaatga	240
gctagataat	gtctccaccc	ttctggaaga	agcagagaag	aagggtatta	aatttgctaa	300
ggatgcagct	agtcttgagt	ctcaactaca	ggatacacag	gagcttcttc	aggaggagac	360
acgccagaaa	ctaaacctga	gcagtcggat	cgggcagctg	gaagaggaga	agaacagtct	420
tcaggagcag	caggaggagg	aggaggaggc	caggaagaac	ctggagaagc	aaagtgctggc	480
cctgcagtcc	cagttggctg	ataccaagaa	gaaagtagat	gacgacctgg	gaacaattga	540
aagtcttgga	agaagccaag	aagaacttct	gaaggacgcg	gaggccctga	gccaacgcct	600
g						601

<210> 212
 <211> 498
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(498)
 <223> n = A,T,C or G

<400> 212						
atgacaaata	ttccacatct	gtgattctct	ccagtcacaaa	gttctttgag	acgatgccat	60
cggccttggc	caatcggaga	atggaatcat	ctgactcacc	catcctacga	atggccccgc	120
agatagcata	agtttttaac	tggccattaa	acctgcctgt	gaccttgctc	acctcggcca	180
cgttcatctg	gatggatgcg	tggtccttgg	caccgatgat	gcgattgcta	gcggagcatt	240
tccgcggcac	gtacaggctc	acgaactcgc	cggcgctcgt	ctgcatttcg	aggctgggct	300
gogcctgctg	ccactcgtgc	cgaattcttt	ggatccacta	gtgtcgacct	gcaggcgcgc	360
gagctccagc	ttttgtccct	ttagtgaggg	ttaatttcga	gcttggcgta	atcaanggca	420
tagctggttc	ctgngngaaa	tgggtatccg	tcacaattcc	ncncaatata	cgagccggaa	480
gtataaaggg	naaagcct					498

<210> 213
 <211> 601
 <212> DNA
 <213> Homo sapien

<400> 213						
actaccagac	aaccttagcc	aaaccattta	cccaaataaa	gtataggcga	tagaaattga	60
aacctggcgc	aatagatata	gtaccgcaag	ggaaagatga	aaaattataa	ccaagcataa	120
tatagcaagg	actaaccctt	ataccttctg	cataatgaat	taactagaaa	taactttgca	180
aggagagcca	aagctaagac	ccccgaaacc	agacgagcta	cctaagaaca	gctaaaagag	240
cacacccgtc	tatgtagcaa	aatagtggga	agatttatag	gtagaggcga	caaacctacc	300
gagcctgggtg	atagctgggt	gtccaagata	gaatcttagt	tcaactttta	atttgcccac	360
agaacctctt	aaatcccctt	gtaaatttaa	ctgttagtcc	aaagaggaac	agctcttttg	420
acactaggaa	aaaaccttgt	agagagagta	aaaaatttaa	cacctatagt	aggcctaaaa	480
gcagccacca	attaagaaag	cgttcaagct	caacacccac	tacctaaaaa	atcccaaaaa	540
tatactgaac	tcttcaacct	aattggccaa	tctatccctt	atagaagact	aatggtagta	600
t						601

<210> 214
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 214
 aggctgcatt taagggtgt cccggagggc cagagtcgtg gcttacagaa gagacgaaat 60
 gtggtctgag ggacgatatg aatatgaaag aattccgaga gaacgagcac ctctcgaag 120
 tcatcccagt gatgaatctg gttatagatg gacaagagac gatcattctg caagcaggca 180
 acctgaatac agggacatga gagatggctt tagaagaaaa agtttctact cttcccatta 240
 tgcgagagag cgggtctcctt ataaaaggga caatactttt ttcagagaat cacctgttgg 300
 ccgaaaggat tctccacaca gcanatctgg ttccagtgtc agtagcanaa gctctctcca 360
 gaaaggagca aatcatactc ttcccatcag tctcaacata gaaataaaga gaggcctgtc 420
 agtctttgaa aacatcaaga gatacttccc ctcaagtggg tcacagttct tctcaaaggg 480
 gtagacaaac ccagtaggta 500

<210> 215
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 215
 gcctgtggga gcccgtaggc tttaaagtgc cgttcagcct tttcctccag ggtgtctttg 60
 taaacacggc tgtgtcagg gctcgggggt gaccgaaagg atcatgaact agtgacctgg 120
 aaagggtact agatggaaac ttgagaaagg actgcttatt gataacagct aaggtattcc 180
 tggaagcaga gtaaataaag ctcatggccc accagctaga aagtattctt gccatgagaa 240
 aaagaatgtg ataagttatt caacttatga aattcaagtt acatgtgaat tctgccaggc 300
 aatacaagga cctgtggaat atgagtgtatg acaaaccctt tctatgtact gcgcctggat 360
 gtggccagcg ttttaccaac gaggatcatt tggctgtcca taaacataaa catgagatga 420
 cactgaaatt tgggtccanca cgtaatgaca gtgtcattgt ggctgatcag accccaacac 480
 caacaagatt cttgaaaaac t 501

<210> 216
 <211> 501
 <212> DNA
 <213> Homo sapien

<400> 216
 agggcgctt gggggcatct gcattggagt tgggggtgcc gatgctgtgg atgtcatggc 60
 tgggatcccc tgggagttga agtgcccaa ggtgattggc gtgaagctga cgggctctct 120
 ctccggttgg tctcaccca aagatgtgat cctgaagggt gcaggcatcc tcacggtgaa 180
 aggtggcaca ggtgcaatcg tggaaacca cgggcctggt gtagactcca tctcctgcac 240
 tggcatggcg acaatctgca acatgggtgc agaaattggg gccaccactt ccgtgttccc 300
 ttacaaccac aggatgaaga agtacctgag caagaccggc cgggaagaca ttgccaatct 360
 agctgatgaa ttcaaggatc acttgggtgcc tgaccctggc tgccattatg accaactaat 420
 tgaaattaac ctacgtgagc tgaagccaca catcaatggg cccttcaccc ctgacctgct 480
 caccctgtgg cagaagtggg c 501

<210> 217
 <211> 408

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(408)
<223> n = A,T,C or G

<400> 217
gctacacctg gacgtgacgt ggggctggga gcaactggggc gggatcctgc cacagtcgct 60
ggacctgttg ctctgcatca acatggccca tgtcagcccc ctgcgctgca cggaggaacc 120
cagaatgggg gcttcgggac acagccctcc tggaggacct gggaaaggcc agtggcctgc 180
tcttgagag gatggtggac atgccagcca acaacaaatg cctgatcttc cggaaaaact 240
aagccccctc ttacccccg cacacctgca tccctgccgg angctctgtg aggcacgaac 300
cctgcctccc taggcgggac cttgtggacg acagccccac ccagtctgtg ctctcagccg 360
ntggccgaag ggccancct gctcagaata aacatgtcct gctgccgg 408

<210> 218
<211> 402
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(402)
<223> n = A,T,C or G

<400> 218
tgcttgctc aaagattaag ccatgcatgt ctaagtacgc acggccggta tctgtctcg 60
cctgccgcag gnggccatgg ntaccgggca gnggtgttc cagcggttct tttataccaa 120
gtccttcgtg aagcactcca tggagcatgt gtcaatggcc tgtgtccacc tggctttcaa 180
gatagaagag gccccaagac gcatacgga cgtcatcaat gtgtttcacc cgccttcgac 240
agctgagaga caaaaagaag cccgtgcctc tactactgga tcaagattat gttaatttaa 300
agaacccaat tataaaggcg ggnaagacna ttcttcaaaa agatgggntt ctgcgnccat 360
gtgaagcatn ctcataagan aatcgnatg taccttcagg gg 402

<210> 219
<211> 486
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(486)
<223> n = A,T,C or G

<400> 219
aatgctgcgg agattgaggt gtcggttcgt gctgctgagc tgcccaggct tcaaggagcg 60
gtgttggaat tcaatagctc ttctagcctt tgcattgttt aaatataata gtgtcattgg 120
actaagatgt tctgatgcc aacctcttca gagttaaaca gtgggcagaa cttcctaacc 180
cagtggatga ccaatccttc tcgggctggg gtcataattaa atcgtggatt tcttattttg 240
gaagcagaca aagagaagcg agcagcttgt ggacatttct accagctttt nctattaaaa 300
ggcacacatt tttctgatag cttcagcttt tataaatgaa gaaaaattoa cttcttgaag 360
aacagaagtt ggagtcaaac aacacttaca aaccacagtc agataaatct gaaaccata 420

cagcctttcc ttgcattaaa aaggggaccnc aggtngcggn atggtccagt gtcctggac 480
ncccg 486

<210> 220
<211> 380
<212> DNA
<213> Homo sapien

<400> 220
ggcggattag ctttcgcggg gcaaaatgga gctcgaggcc atgagcagat ataccagccc 60
agtgaaccca gctgtcttcc cccatctgac cgtggtgctt ttggccattg gcatgttctt 120
cacgcctgg ttcttcgttt acgaggtcac ctctaccaag tacactcgtg atatctataa 180
agagctctc atctccttag tggcctcact cttcatgggc ttggagtc tcttctgct 240
gctctgggtt ggcattctac tgtgagcacc caagggtaac aaccagatgg cttcactgaa 300
acctgctttt gtaaattact ttttttact gttgctggaa gtgtcccacc tgctgtcat 360
aataaatgca gatgtatagc 380

<210> 221
<211> 406
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(406)
<223> n = A,T,C or G

<400> 221
gcggattagc ctttcgcgggg caaaatggag ctcgaggcca tgagcagata taccagccca 60
gtgaaccag ctgtcttccc ccatctgacc gtggtgcttt tggccattgg catgttcttc 120
accgcctggt tottcgttta cgangtcacc tctaccaagt acactcgtga tatctataaa 180
gagctcctca tctccttagt ggctcactc ttcattgggt ttggagtctt cttcctgctg 240
ctctgggttg gcatctacgt gtgagcacc aagggttaaca accagatggc ttcactgaaa 300
cctgcttttg taaattactt ttttttactg ttgctggaag tgtcccacct gctgctcata 360
ataaatgcag atgtatagcc ctatagnag cgtattacaa ttcact 406

<210> 222
<211> 501
<212> DNA
<213> Homo sapien

<400> 222
aatggcggtg gttggtgtgt cctcggtttc tcggctgctg ggtcgtgcc gccacagct 60
ggggcggcct atgtcgagt ggcgccatgg cgaagagggc tcagctcgca tgtggaagac 120
tctcaccttc ttcgctcggc tccccggggt ggcagtcagc atgctgaatg tgtacctgaa 180
gtcgaccac ggagagcacg agagaccgga gttcatcgcc taccctcctc tccgcatcag 240
gaccaagccg ttccctggtg gagatggtaa ccatactcta ttccataacc ctcatgtgaa 300
tccacttcca actggctacg aagatgaata aagagaatct ggaccactac ccgggcacca 360
gggaccacag cactgggttg gaccgttact ctgcacatgg accagaaaaa gtatatggga 420
ccttaagctc accttcttta cttgtatcaa atgatgactg gtatactggt ctcccatccc 480
tttgcttgtg gcaggagatg g 501

<210> 223
<211> 455

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(455)
<223> n = A,T,C or G

<400> 223
aatcttatgc aaaagggaca cagggggttca aaaataaaaa tttctcttcc cctccccaa 60
acctgtaccc cagctccccg accacaaccc ctttctctcc ccgggggaaag caagaaggag 120
caggtgtggc atctgcagct gggaananag aggccgggga ggtgccgagc tcggtgctgg 180
tctctttcca aatataaata cgtgtgtcan aactggaaaa tcctccagca cccaccaccc 240
aagcactctc cgtttttctgc cgggtgtttg agaggggagg ggggcagggg cgccaggcac 300
cggtgtgctg cgggtctactg catccgctgg gtgtgcaccc cgcgagcctc ctgctgctca 360
ttgtagaaga gatgacactc ggggtccccc ccggatggng ggggctccct ggatcagctt 420
tccgnggnt ggggttcaca caccagcact tccca 455

<210> 224
<211> 507
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G

<400> 224
ttaccacac ccattgtagc ccttgggtgn gggatgtgcc ctgtccctgc agggccaaaa 60
gggtccatgt ttccctcaaa tctcaaagca gtccctggcc aggtctgcagg caggaggga 120
gtcgtgacct cttggcaggc tcagtccctgc agctgcccc agcagccana ctgtccctgg 180
ggctcgtcca ggccggggcg ctggctggga ggggaggtgt ctggcaggtc ttggcatgga 240
ggaaaanagc tgetgcaggg cctntcgggg gagggggttg ccaagtaggc attcaccagc 300
tgcatgatct cttccacctg ggggctctgc aggaggagct ggntctctcc caccctcaag 360
gccagggtgn gggggcccat tagctggcag gcggccacat ggccatagct gacactgnng 420
atgggctccg tctccctgg ccggganagg gacatggcct tggctcccaa gcccaggcac 480
agtttntggg ggagcaccoc gaccagg 507

<210> 225
<211> 572
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(572)
<223> n = A,T,C or G

<400> 225
aaacctccct taaagattct ttgatgcttt gctctatcac tgtanacctg gtctttttcc 60
ccccagtttt ttctttttta cattctgggt tgctattttc anattaataa tttgatgacc 120
ccatcacagt accaaaatac cccccaaaat gaagttcaaa tttgatcaaa acataaatca 180
gagngagnga gtaaaattat aaaggccagg cagcaggaaa agtcaccctc aactaccatn 240

tgactgggtca	ggtctcacc	atgccaaagg	gggcaggaag	agganaaatc	tattatacat	300
gcaacactga	actggggaac	atggcttggg	gcctccagga	cagttcaggt	ccccaagcta	360
acccctact	tccanacag	ctgctcgtac	agtttgggca	catagtcac	ccactcggcc	420
tggtaacacg	tgccagccac	cggggccctg	agctcatact	ttttacggaa	ggacgccacc	480
ttgaatttgc	cacggnggnc	tccanancgg	ttgctgaaga	tgggctcnc	acacttttagc	540
gggctgtcct	gctcgtaaac	canccaaaca	ta			572

<210> 226
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 226	
gaagcgtctc	cggttgggtcc
ggacgcggat	ctgtcaacat
tcgtacgect	tcttcgtgca
tccgtcaatt	tcgcggaatt
aaggagaagt	cgaagtgttg
atgaaaaatt	acgttctctc
cctaaaaggc	caccatctgc
	cttcttctgt
	tttgcctctga
	a
	60
	120
	180
	240
	300
	360
	401

<210> 227
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 227	
agcgtttcta	gaaatgctga
atcaggagat	gatgacactg
agaatctgac	atggaattta
tgacagagcaa	ttggtggtgg
gcagaaagat	gaagctctac
aacttctgcg	aaggccaatt
tggtgctcag	acctcagcag
aagataacat	antcagagag
acagaatggg	tgtgaaggag
	c
	60
	120
	180
	240
	300
	360
	420
	480
	501

<210> 228
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 228	
gcaggttccc	ttttatgggc
caggtggtaa	ctggaacaca
gaacagtga	ggacagaacc
	60

ttggaccaca	ggccattcct	caggatggca	gtataacaca	tcagattttct	aggcctaatac	120
ctccaaattt	tgggtccaggc	tttgtcaatg	attcacagcg	taagcagtat	gaagagtggc	180
tccaggagac	ccaacagctg	cttcaaattgc	agcagaagta	tcttgaagaa	caaattgggtg	240
ctcacagaaa	atctaagaag	gcccttttcag	ctaaacaacg	tactgccaaag	aaagctggggc	300
gtgaattttcc	agaggaagat	gcagaacaac	tcaagcatgt	tactgaacag	caaagcatgg	360
ttcagaaaaca	gctagaacag	attcgtaaac	aacagaaaaga	acatgctgaa	ttgattgaag	420
attatcggtat	caaacagcag	cancaatgng	caatggcccc	acctaccatg	atgcccagng	480
tccagcccca	nccccctaa	t				501

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<210> 229
<211> 4099
<212> DNA
<213> Homo sapiens
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<400>	229						
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atcccccgcc	cgctagcccg	ccctggtccc	cggtctcgctc	gctggctggc	gcggccccgg	180	
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ggaacgaggg	ggacacattc	caccaggaca	acoggcgctc	ggggcttatc	cgacttacc	420	
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aaagaaaaat	gagcaactcc	tttcatggaa	ttagaccacc	tcaacttgaa	caaccagaaa	1020	
aatgcctgt	cttaaaggct	gaagcgtcac	attataactc	tgacttaa	aacttgctgt	1080	
tctgctgcca	gtgtgtggac	gtggtatttt	ataaccccg	tttaaagaaa	gttgtagagg	1140	
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caacctggct	acttcatttc	attgtacta	actacctcat	cttcagtcaa	aagcctgaat	2040	
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<210> 233

<211> 611

<212> PRT

<213> Homo sapiens

<400> 233

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Gln	Asp	Asn	Arg	Pro	Ser	Gly	Leu	Ile	Arg	Thr	Tyr	Leu	Gly	Arg	Ser
		20					25					30			
Pro	Leu	Val	Ser	Gly	Asp	Glu	Ser	Ser	Leu	Leu	Leu	Asn	Ala	Ala	Ser
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Thr	Val	Ala	Arg	Pro	Val	Phe	Thr	Glu	Tyr	Gln	Ala	Ser	Ala	Phe	Gly
	50					55				60					
Asn	Val	Lys	Leu	Val	Val	His	Asp	Cys	Pro	Val	Trp	Asp	Ile	Phe	Asp
65				70					75						80
Ser	Asp	Trp	Tyr	Thr	Ser	Arg	Asn	Leu	Ile	Gly	Gly	Ala	Asp	Ile	Ile
			85				90							95	
Val	Ile	Lys	Tyr	Asn	Val	Asn	Asp	Lys	Phe	Ser	Phe	His	Glu	Val	Lys
		100					105					110			
Asp	Asn	Tyr	Ile	Pro	Val	Ile	Lys	Arg	Ala	Leu	Asn	Ser	Val	Pro	Val
		115					120					125			
Ile	Ile	Ala	Ala	Val	Gly	Thr	Arg	Gln	Asn	Glu	Glu	Leu	Pro	Cys	Thr
	130				135						140				
Cys	Pro	Leu	Cys	Thr	Ser	Asp	Arg	Gly	Ser	Cys	Val	Ser	Thr	Thr	Glu
145				150						155					160
Gly	Ile	Gln	Leu	Ala	Lys	Glu	Leu	Gly	Ala	Thr	Tyr	Leu	Glu	Leu	His
			165						170					175	
Ser	Leu	Asp	Asp	Phe	Tyr	Ile	Gly	Lys	Tyr	Phe	Gly	Gly	Val	Leu	Glu
			180					185					190		
Tyr	Phe	Met	Ile	Gln	Ala	Leu	Asn	Gln	Lys	Thr	Ser	Glu	Lys	Met	Lys
		195					200					205			
Lys	Arg	Lys	Met	Ser	Asn	Ser	Phe	His	Gly	Ile	Arg	Pro	Pro	Gln	Leu
	210				215						220				
Glu	Gln	Pro	Glu	Lys	Met	Pro	Val	Leu	Lys	Ala	Glu	Ala	Ser	His	Tyr
225				230						235					240
Asn	Ser	Asp	Leu	Asn	Asn	Leu	Leu	Phe	Cys	Cys	Gln	Cys	Val	Asp	Val
			245						250					255	
Val	Phe	Tyr	Asn	Pro	Asp	Leu	Lys	Lys	Val	Val	Glu	Ala	His	Lys	Ile
			260					265					270		
Val	Leu	Cys	Ala	Val	Ser	His	Val	Phe	Met	Leu	Leu	Phe	Asn	Val	Lys
		275					280					285			
Ser	Pro	Thr	Asp	Ile	Gln	Asp	Ser	Ser	Ile	Ile	Arg	Thr	Thr	Gln	Asp
	290				295						300				
Leu	Phe	Ala	Ile	Asn	Arg	Asp	Thr	Ala	Phe	Pro	Gly	Ala	Ser	His	Glu
305				310						315					320
Ser	Ser	Gly	Asn	Pro	Pro	Leu	Arg	Val	Ile	Val	Lys	Asp	Ala	Leu	Phe
			325						330					335	
Cys	Ser	Cys	Leu	Ser	Asp	Ile	Leu	Arg	Phe	Ile	Tyr	Ser	Gly	Ala	Phe
			340					345					350		
Gln	Trp	Glu	Glu	Leu	Glu										

Lys Pro Leu Trp Phe Tyr Asn Thr Ser Leu Lys Phe Phe Leu Asn Lys
 405 410 415
 Pro Met Leu Ala Asp Val Val Phe Glu Ile Gln Gly Thr Thr Val Pro
 420 425 430
 Ala His Arg Ala Ile Leu Val Ala Arg Cys Glu Val Met Ala Ala Met
 435 440 445
 Phe Asn Gly Asn Tyr Met Glu Ala Lys Ser Val Leu Ile Pro Val Tyr
 450 455 460
 Gly Val Ser Lys Glu Thr Phe Leu Ser Phe Leu Glu Tyr Leu Tyr Thr
 465 470 475 480
 Asp Ser Cys Cys Pro Ala Gly Ile Phe Gln Ala Met Cys Leu Leu Ile
 485 490 495
 Cys Ala Glu Met Tyr Gln Val Ser Arg Leu Gln His Ile Cys Glu Leu
 500 505 510
 Phe Ile Ile Thr Gln Leu Gln Ser Met Pro Ser Arg Glu Leu Ala Ser
 515 520 525
 Met Asn Leu Asp Ile Val Asp Leu Leu Lys Lys Ala Lys Phe His His
 530 535 540
 Ser Asp Cys Leu Ser Thr Trp Leu Leu His Phe Ile Ala Thr Asn Tyr
 545 550 555 560
 Leu Ile Phe Ser Gln Lys Pro Glu Phe Gln Asp Leu Ser Val Glu Glu
 565 570 575
 Arg Ser Phe Val Glu Lys His Arg Trp Pro Ser Asn Met Tyr Leu Lys
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 Gln Leu Ala Glu Tyr Arg Lys Tyr Ile His Ser Arg Lys Cys Arg Cys
 595 600 605
 Leu Val Met
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<210> 234
 <211> 494
 <212> PRT
 <213> Homo sapiens

<400> 234
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 Met Asn Gly Leu Ser His Ser Pro Gly Asn Pro Ser Thr Ile Pro Met
 35 40 45
 Lys Asp His Asp Ala Ile Lys Leu Phe Ile Gly Gln Ile Pro Arg Asn
 50 55 60
 Leu Asp Glu Lys Asp Leu Lys Pro Leu Phe Glu Glu Phe Gly Lys Ile
 65 70 75 80
 Tyr Glu Leu Thr Val Leu Lys Asp Arg Phe Thr Gly Met His Lys Gly
 85 90 95
 Cys Ala Phe Leu Thr Tyr Cys Glu Arg Glu Ser Ala Leu Lys Ala Gln
 100 105 110
 Ser Ala Leu His Glu Gln Lys Thr Leu Pro Gly Met Asn Arg Pro Ile
 115 120 125
 Gln Val Lys Pro Ala Asp Ser Glu Ser Arg Gly Asp Arg Lys Leu Phe
 130 135 140

Val Gly Met Leu Asn Lys Gln Gln Ser Glu Asp Asp Val Arg Arg Leu
 145 150 155 160
 Phe Glu Ala Phe Gly Asn Ile Glu Glu Cys Thr Ile Leu Arg Gly Pro
 165 170 175
 Asp Gly Asn Ser Lys Gly Cys Ala Phe Val Lys Tyr Ser Ser His Ala
 180 185 190
 Glu Ala Gln Ala Ala Ile Asn Ala Leu His Gly Ser Gln Thr Met Pro
 195 200 205
 Gly Ala Ser Ser Ser Leu Val Val Lys Phe Ala Asp Thr Asp Lys Glu
 210 215 220
 Arg Thr Met Arg Arg Met Gln Gln Met Ala Gly Gln Met Gly Met Phe
 225 230 235 240
 Asn Pro Met Ala Ile Pro Phe Gly Ala Tyr Gly Ala Tyr Ala Gln Ala
 245 250 255
 Leu Met Gln Gln Gln Ala Ala Leu Met Ala Ser Val Ala Gln Gly Gly
 260 265 270
 Tyr Leu Asn Pro Met Ala Ala Phe Ala Ala Ala Gln Met Gln Gln Met
 275 280 285
 Ala Ala Leu Asn Met Asn Gly Leu Ala Ala Ala Pro Met Thr Pro Thr
 290 295 300
 Ser Gly Gly Ser Thr Pro Pro Gly Ile Thr Ala Pro Ala Val Pro Ser
 305 310 315 320
 Ile Pro Ser Pro Ile Gly Val Asn Gly Phe Thr Gly Leu Pro Pro Gln
 325 330 335
 Ala Asn Gly Gln Pro Ala Ala Glu Ala Val Phe Ala Asn Gly Ile His
 340 345 350
 Pro Tyr Pro Ala Gln Ser Pro Thr Ala Ala Asp Pro Leu Gln Gln Ala
 355 360 365
 Tyr Ala Gly Val Gln Gln Tyr Ala Gly Pro Ala Tyr Pro Ala Ala Tyr
 370 375 380
 Gly Gln Ile Ser Gln Ala Phe Pro Gln Pro Pro Pro Met Ile Pro Gln
 385 390 395 400
 Gln Gln Arg Glu Gly Pro Glu Gly Cys Asn Leu Phe Ile Tyr His Leu
 405 410 415
 Pro Gln Glu Phe Gly Asp Ala Glu Leu Met Gln Met Phe Leu Pro Phe
 420 425 430
 Gly Asn Val Ile Ser Ser Lys Val Phe Val Asp Arg Ala Thr Asn Gln
 435 440 445
 Ser Lys Cys Phe Gly Phe Val Ser Phe Asp Asn Pro Ala Ser Ala Gln
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 Thr Ala Ile Gln Ala Met Asn Gly Phe Gln Ile Gly Met Lys Arg Leu
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 Lys Val Gln Leu Lys Arg Pro Lys Asp Ala Asn Arg Pro Tyr
 485 490

<210> 235
 <211> 826
 <212> PRT
 <213> Homo sapiens

<400> 235
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Glu	Ser	Glu	Val	Phe	Tyr	Glu	Leu	Ala	His	Gln	Leu	Pro	Leu	Pro	His
		35					40					45			
Asn	Val	Ser	Ser	His	Leu	Asp	Lys	Ala	Ser	Val	Met	Arg	Leu	Thr	Ile
	50					55				60					
Ser	Tyr	Leu	Arg	Val	Arg	Lys	Leu	Leu	Asp	Ala	Gly	Asp	Leu	Asp	Ile
65					70					75					80
Glu	Asp	Asp	Met	Lys	Ala	Gln	Met	Asn	Cys	Phe	Tyr	Leu	Lys	Ala	Leu
				85				90						95	
Asp	Gly	Phe	Val	Met	Val	Leu	Thr	Asp	Asp	Gly	Asp	Met	Ile	Tyr	Ile
			100					105					110		
Ser	Asp	Asn	Val	Asn	Lys	Tyr	Met	Gly	Leu	Thr	Gln	Phe	Glu	Leu	Thr
		115				120						125			
Gly	His	Ser	Val	Phe	Asp	Phe	Thr	His	Pro	Cys	Asp	His	Glu	Glu	Met
	130					135					140				
Arg	Glu	Met	Leu	Thr	His	Arg	Asn	Gly	Leu	Val	Lys	Lys	Gly	Lys	Glu
145					150					155					160
Gln	Asn	Thr	Gln	Arg	Ser	Phe	Phe	Leu	Arg	Met	Lys	Cys	Thr	Leu	Thr
				165				170						175	
Ser	Arg	Gly	Arg	Thr	Met	Asn	Ile	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu
			180					185					190		
His	Cys	Thr	Gly	His	Ile	His	Val	Tyr	Asp	Thr	Asn	Ser	Asn	Gln	Pro
	195						200					205			
Gln	Cys	Gly	Tyr	Lys	Lys	Pro	Pro	Met	Thr	Cys	Leu	Val	Leu	Ile	Cys
	210					215					220				
Glu	Pro	Ile	Pro	His	Pro	Ser	Asn	Ile	Glu	Ile	Pro	Leu	Asp	Ser	Lys
225					230					235					240
Thr	Phe	Leu	Ser	Arg	His	Ser	Leu	Asp	Met	Lys	Phe	Ser	Tyr	Cys	Asp
				245				250						255	
Glu	Arg	Ile	Thr	Glu	Leu	Met	Gly	Tyr	Glu	Pro	Glu	Glu	Leu	Leu	Gly
			260					265					270		
Arg	Ser	Ile	Tyr	Glu	Tyr	Tyr	His	Ala	Leu	Asp	Ser	Asp	His	Leu	Thr
		275					280					285			
Lys	Thr	His	His	Asp	Met	Phe	Thr	Lys	Gly	Gln	Val	Thr	Thr	Gly	Gln
	290					295					300				
Tyr	Arg	Met	Leu	Ala	Lys	Arg	Gly	Gly	Tyr	Val	Trp	Val	Glu	Thr	Gln
305					310					315					320
Ala	Thr	Val	Ile	Tyr	Asn	Thr	Lys	Asn	Ser	Gln	Pro	Gln	Cys	Ile	Val
				325					330					335	
Cys	Val	Asn	Tyr	Val	Val	Ser	Gly	Ile	Ile	Gln	His	Asp	Leu	Ile	Phe
			340					345					350		
Ser	Leu	Gln	Gln	Thr	Glu	Cys	Val	Leu	Lys	Pro	Val	Glu	Ser	Ser	Asp
		355					360					365			
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<210> 236
<211> 342
<212> PRT
<213> Homo sapiens
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<400> 236

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			20					25					30				
Leu	Arg	Glu	Lys	Val	Met	Lys	Gln	Ser	Glu	Glu	Asn	Asn	Asn	Leu	Gln		
			35				40					45					
Ser	Gln	Val	Gln	Lys	Leu	Thr	Glu	Glu	Asn	Thr	Thr	Leu	Arg	Glu	Gln		
			50			55					60						
Val	Glu	Pro	Thr	Pro	Glu	Asp	Glu	Asp	Asp	Asp	Ile	Glu	Leu	Arg	Gly		
			65		70				75						80		
Ala	Ala	Ala	Ala	Ala	Ala	Pro	Pro	Pro	Pro	Ile	Glu	Glu	Glu	Cys	Pro		
				85				90						95			
Glu	Asp	Leu	Pro	Glu	Lys	Phe	Asp	Gly	Asn	Pro	Asp	Met	Leu	Ala	Pro		
			100					105					110				
Phe	Met	Ala	Gln	Cys	Gln	Ile	Phe	Met	Glu	Lys	Ser	Thr	Arg	Asp	Phe		
			115				120					125					
Ser	Val	Asp	Arg	Val	Arg	Val	Cys	Phe	Val	Thr	Ser	Met	Met	Thr	Gly		
			130			135					140						
Arg	Ala	Ala	Arg	Trp	Ala	Ser	Ala	Lys	Leu	Glu	Arg	Ser	His	Tyr	Leu		
				150						155					160		
Met	His	Asn	Tyr	Pro	Ala	Phe	Met	Met	Glu	Met	Lys	His	Val	Phe	Glu		
				165				170						175			
Asp	Pro	Gln	Arg	Arg	Glu	Val	Ala	Lys	Arg	Lys	Ile	Arg	Arg	Leu	Arg		
			180					185					190				
Gln	Gly	Met	Gly	Ser	Val	Ile	Asp	Tyr	Ser	Asn	Ala	Phe	Gln	Met	Ile		
			195				200					205					
Ala	Gln	Asp	Leu	Asp	Trp	Asn	Glu	Pro	Ala	Leu	Ile	Asp	Gln	Tyr	His		
			210			215					220						
Glu	Gly	Leu	Ser	Asp	His	Ile	Gln	Glu	Glu	Leu	Ser	His	Leu	Glu	Val		
				230						235				240			
Ala	Lys	Ser	Leu	Ser	Ala	Leu	Ile	Gly	Gln	Cys	Ile	His	Ile	Glu	Arg		
			245					250						255			
Arg	Leu	Ala	Arg	Ala	Ala	Ala	Ala	Arg	Lys	Pro	Arg	Ser	Pro	Pro	Arg		
			260					265					270				
Ala	Leu	Val	Leu	Pro	His	Ile	Ala	Ser	His	His	Gln	Val	Asp	Pro	Thr		
			275				280					285					
Glu	Pro	Val	Gly	Gly	Ala	Arg	Met	Arg	Leu	Thr	Gln	Glu	Glu	Lys	Glu		
			290			295					300						
Arg	Arg	Arg	Lys	Leu	Asn	Leu	Cys	Leu	Tyr	Cys	Gly	Thr	Gly	Gly	His		
				310					315						320		
Tyr	Ala	Asp	Asn	Cys	Pro	Ala	Lys	Ala	Ser	Lys	Ser	Ser	Pro	Ala	Gly		
			325					330						335			
Asn	Ser	Pro	Ala	Pro	Leu												
			340														

<210> 237

<211> 403

<212> DNA

<213> Homo sapiens

<400> 237

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cttcagcaaa agtggtgaca taaagaaaat cattatgggt ctggataaaa tgaagaaaac 300
agcatgtgga ttctgttttg tggaaatatta ctcacgcgca gatgcggaaa acgccatgcy 360
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<210> 238

<211> 183

<212> DNA

<213> Homo sapiens

<400> 238

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acataactta cggtaaattgg ccgccttggc tgaccgcccc acgacccccg cccattgacg 120
tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccattg acgtcaatgg 180
gtg 183

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<210> 239

<211> 403

<212> DNA

<213> Homo sapiens

<400> 239

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ccatcatggc agctatgtga aacactaata aatgtgtttt tactttttat tcccggttaa 180
actgatgtaa aacaggataa aggcttggtt tagtcactta taagtatctg ggtctaagta 240
atttccttag atgtttctaa agaaacattt tcagctttgc tcccattatg attccaataa 300
ggaacgcttt cctagtgcaa ttttaggagt aaagtttgaa gagataaaaa tagccaaaga 360
taggagacgt ctgaattttg aatgataaac agtgatgttt taa 403

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<210> 240

<211> 3148

<212> DNA

<213> Homo sapiens

<400> 240

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agttggagcg gagacttagc ataatggcag aacctgttcc tccactgaag cactttgtgc 120
tggttaagaa ggcgattact gcagtccttg accagttact ggagtttggt actgaaggat 180
cacattttgt tgaagcaaca tataagaatc cggaacttga tcgaatagcc actgaagatg 240
atctggtaga aatgcaagga tataaagaca agctttccat cattggtgag gtgctatctc 300
ggagacacat gaaggtggca ttttttggca ggacaagcag tgggaagagc tctgttatca 360
atgcaatgtt gtgggataaa gttctccta gtgggattgg ccatataacc aattgcttcc 420
taagtgttga aggaactgat ggagataaag cctatcttat gacagaagga tcagatgaaa 480
aaaagagtgt gaagacagtt aatcaactgg cccatgcctc tcacatggac aaagatttga 540
aagctggctg tcttgtagct gtgttttggc caaaagcaaa atgtgccctc ttgagagatg 600
acctggtgtt agtagacagt ccaggcacag atgtcactac agagctggat agctggattg 660
ataagttttg cctagatgct gatgtctttg ttttggctgc aaactctgaa tcaacactaa 720
tgaatacggg aaaacacttt ttccacaagg tgaatgagcg gctttccaag cctaataatt 780
tcattctcaa taatcgttgg gatgcctctg catcagagcc agaataatg gaagacgtac 840
gcagacagca catggaaaga tgctgcatt tcttggtgga ggagctcaaa gttgtaaatg 900

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tgctagatta cccaaagaaa tagatcagtt ggagaaaata caaaacaatt caaagctctt 2100
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<210> 241
<211> 283
<212> DNA
<213> Homo sapiens

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<210> 242
<211> 5526
<212> DNA

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<213> Homo sapiens

<400> 242

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<210> 243

<211> 303

<212> DNA

<213> Homo sapiens

<400> 243

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ggc

303

<210> 244

<211> 2393

<212> DNA

<213> Homo sapiens

<400> 244

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<210> 245

<211> 473

<212> DNA

<213> Homo sapiens

<400> 245

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ttcgcggtca aatgacagtt tctgtcatta cttagattcc gatctttccc aaaggtgttg 420
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<210> 246

<211> 513

<212> DNA

<213> Homo sapiens

<400> 246

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<210> 247

<211> 533

<212> DNA

<213> Homo sapiens

<400> 247

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<210> 248

<211> 1362

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 249

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<210> 250

<211> 1172

<212> DNA

<213> Homo sapiens

<400> 250

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cctgttaatc caaggtcttt agaaaaactt gaaattattc ctgcaagcca attttgtcca 240
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tcgaaggcca tcaagaattt actgaaagca gttagcaagg aaatgtctaa aagatctcct 360
taaaaccaga ggggagcaaa atcgatgcag tgcttccaag gatggaccac acagaggctg 420
cctctcccat cacttcccta catggagtat atgtcaagcc ataattgttc ttagtttgca 480
gttacactaa aagggtgacca atgatggtca ccaatcagc tgctactact cctgtaggaa 540

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ggttaatggt catcatccta agctattcag taataactct accctggcac tataatgtaa 600
gctctactga ggtgctatgt tcttagtgga tgttctgacc ctgcttcaaa tatttccctc 660
acctttccca tcttccaagg gtactaagga atctttctgc ttgggggttt atcagaattc 720
tcagaatctc aaataactaa aaggatgca atcaaactcg ctttttaaag aatgctcttt 780
acttcatgga cttccactgc catcctccca agggggcccaa attctttcag tggctacctt 840
catacaattc caaacacata caggaaggta gaaatatctg aaaatgtatg tgtaagtatt 900
cttattttaa gaaagactgt acaaagtata agtcttagat gtatatattt cctatatattg 960
tttcagtgt catggaataa catgtaatta agtactatgt atcaatgagt aacaggaaaa 1020
tttataaaat acagatagat atatgctctg catgtttacat aagataaatg tgctgaatgg 1080
ttttcaaaata aaaatgaggt actctcctgg aaatatattaag aaagactatc taaatgttga 1140
aagatcaaaa ggttaataaa gtaattataa ct 1172

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<210> 251
 <211> 483
 <212> DNA
 <213> Homo sapiens

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<400> 251
atataaccatt taatacattt acactttctt atttaagaag atattgaatg caaaataatt 60
gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120
acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180
ctgactctaa tcaaatgtga tgattggaat tagaccattt ggcctttgaa ctttcatagg 240
aaaaatgacc caacatttct tagcatgagc tacctcatct ctagaagctg ggatggactt 300
actattcttg tttatatattt agatactgaa aggtgctatg cttctgttat tattccaaga 360
ctggagatag gcagggctaa aaaggtatta ttatttttcc tttaatgatg gtgctaaaat 420
tcttcctata aaattcctta aaaataaaga tggtttaatc actaccattg tgaaaacata 480
act

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<210> 252
 <211> 156
 <212> PRT
 <213> Homo sapiens

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<400> 252
Met Ser Gly Gly Leu Leu Lys Ala Leu Arg Ser Asp Ser Tyr Val Glu
                    5                10                15
Leu Ser Gln Tyr Arg Asp Gln His Phe Arg Gly Asp Asn Glu Glu Gln
                    20                25                30
Glu Lys Leu Leu Lys Lys Ser Cys Thr Leu Tyr Val Gly Asn Leu Ser
                    35                40                45
Phe Tyr Thr Thr Glu Glu Gln Ile Tyr Glu Leu Phe Ser Lys Ser Gly
                    50                55                60
Asp Ile Lys Lys Ile Ile Met Gly Leu Asp Lys Met Lys Lys Thr Ala
                    65                70                75                80
Cys Gly Phe Cys Phe Val Glu Tyr Tyr Ser Arg Ala Asp Ala Glu Asn
                    85                90                95
Ala Met Arg Tyr Ile Asn Gly Thr Arg Leu Asp Asp Arg Ile Ile Arg
                    100                105                110
Thr Asp Trp Asp Ala Gly Phe Lys Glu Gly Arg Gln Tyr Gly Arg Gly
                    115                120                125
Arg Ser Gly Gly Gln Val Arg Asp Glu Tyr Arg Gln Asp Tyr Asp Ala
                    130                135                140
Gly Arg Gly Gly Tyr Gly Lys Leu Ala Gln Asn Gln
145                150                155

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<210> 253
 <211> 370
 <212> PRT
 <213> Homo sapiens

<400> 253

Met	Ala	Glu	Pro	Val	Ser	Pro	Leu	Lys	His	Phe	Val	Leu	Ala	Lys	Lys
				5					10					15	
Ala	Ile	Thr	Ala	Val	Phe	Asp	Gln	Leu	Leu	Glu	Phe	Val	Thr	Glu	Gly
			20				25					30			
Ser	His	Phe	Val	Glu	Ala	Thr	Tyr	Lys	Asn	Pro	Glu	Leu	Asp	Arg	Ile
		35					40					45			
Ala	Thr	Glu	Asp	Asp	Leu	Val	Glu	Met	Gln	Gly	Tyr	Lys	Asp	Lys	Leu
	50				55						60				
Ser	Ile	Ile	Gly	Glu	Val	Leu	Ser	Arg	Arg	His	Met	Lys	Val	Ala	Phe
	65				70					75				80	
Phe	Gly	Arg	Thr	Ser	Ser	Gly	Lys	Ser	Ser	Val	Ile	Asn	Ala	Met	Leu
				85					90					95	
Trp	Asp	Lys	Val	Leu	Pro	Ser	Gly	Ile	Gly	His	Ile	Thr	Asn	Cys	Phe
			100					105					110		
Leu	Ser	Val	Glu	Gly	Thr	Asp	Gly	Asp	Lys	Ala	Tyr	Leu	Met	Thr	Glu
		115					120					125			
Gly	Ser	Asp	Glu	Lys	Lys	Ser	Val	Lys	Thr	Val	Asn	Gln	Leu	Ala	His
	130					135					140				
Ala	Leu	His	Met	Asp	Lys	Asp	Leu	Lys	Ala	Gly	Cys	Leu	Val	Arg	Val
	145				150					155				160	
Phe	Trp	Pro	Lys	Ala	Lys	Cys	Ala	Leu	Leu	Arg	Asp	Asp	Leu	Val	Leu
				165				170						175	
Val	Asp	Ser	Pro	Gly	Thr	Asp	Val	Thr	Thr	Glu	Leu	Asp	Ser	Trp	Ile
		180					185						190		
Asp	Lys	Phe	Cys	Leu	Asp	Ala	Asp	Val	Phe	Val	Leu	Val	Ala	Asn	Ser
	195					200						205			
Glu	Ser	Thr	Leu	Met	Asn	Thr	Glu	Lys	His	Phe	Phe	His	Lys	Val	Asn
	210					215					220				
Glu	Arg	Leu	Ser	Lys	Pro	Asn	Ile	Phe	Ile	Leu	Asn	Asn	Arg	Trp	Asp
	225				230					235				240	
Ala	Ser	Ala	Ser	Glu	Pro	Glu	Tyr	Met	Glu	Asp	Val	Arg	Arg	Gln	His
				245					250					255	
Met	Glu	Arg	Cys	Leu	His	Phe	Leu	Val	Glu	Glu	Leu	Lys	Val	Val	Asn
		260					265						270		
Ala	Leu	Glu	Ala	Gln	Asn	Arg	Ile	Phe	Phe	Val	Ser	Ala	Lys	Glu	Val
		275					280					285			
Leu	Ser	Ala	Arg	Lys	Gln	Lys	Ala	Gln	Gly	Met	Pro	Glu	Ser	Gly	Val
	290					295					300				
Ala	Leu	Ala	Glu	Gly	Phe	His	Ala	Arg	Leu	Gln	Glu	Phe	Gln	Asn	Phe
	305				310					315				320	
Glu	Gln	Ile	Phe	Glu	Cys	Ile	Ser	Gln	Ser	Ala	Val	Lys	Thr	Lys	
			325					330					335		
Phe	Glu	Gln	His	Thr	Ile	Arg	Ala	Lys	Gln	Ile	Leu	Ala	Thr	Val	Lys
		340					345					350			
Asn	Ile	Met	Asp	Ser	Val	Asn	Leu	Ala	Ala	Glu	Asp	Lys	Arg	Phe	His
		355					360						365		

Val Gln
370

<210> 254
<211> 429
<212> PRT
<213> Homo sapiens

<400> 254
Gly Pro Trp Gly Ser Gly Val Gly Gly Gly Gly Thr Val Arg Leu Leu
 5 10 15
Leu Ile Leu Ser Gly Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val
 20 25 30
Asn Val Val Met Leu Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser
 35 40 45
Gln Gln Phe Cys Tyr Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile
 50 55 60
Trp Thr Arg Ile Gln Ile Arg Val Asn Ser Ser Arg Leu Val Arg Val
 65 70 75 80
Thr Gln Val Glu Asn Glu Glu Lys Leu Lys Glu Leu Glu Gln Phe Ser
 85 90 95
Ile Trp Asn Phe Phe Ser Ser Phe Leu Lys Glu Lys Leu Asn Asp Thr
 100 105 110
Tyr Val Asn Val Gly Leu Tyr Ser Thr Lys Thr Cys Leu Lys Val Glu
 115 120 125
Ile Ile Glu Lys Asp Thr Lys Tyr Ser Val Ile Val Ile Arg Arg Phe
 130 135 140
Asp Pro Lys Leu Phe Leu Val Phe Leu Leu Gly Leu Met Leu Phe Phe
145 150 155 160
Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr Tyr Ser Thr Gly
 165 170 175
Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile Ile Phe Ile Leu
 180 185 190
Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val Ile Leu Val Gly
 195 200 205
Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val Phe Lys Asn Leu
 210 215 220
Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu Ser Tyr Val Leu
225 230 235 240
Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys Tyr Gly Pro Leu
 245 250 255
Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr Leu Gln Leu Met
 260 265 270
Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro His Ile Ala Leu
 275 280 285
Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu Glu His Pro Ile
 290 295 300
Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys Gly Ala Glu Lys
305 310 315 320
Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Tyr Arg Ile Gln Gly
 325 330 335
Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg Glu Phe Cys Asn
 340 345 350

Ser	Pro	Asp	Cys	Ser	Ala	Trp	Lys	Thr	Val	Ser	Arg	Ile	Gln	Ser	Pro
		355					360					365			
Lys	Arg	Phe	Ala	Asp	Phe	Val	Glu	Gly	Ser	Ser	His	Leu	Thr	Pro	Asn
	370					375					380				
Glu	Val	Ser	Val	His	Glu	Gln	Glu	Tyr	Gly	Leu	Gly	Ser	Ile	Ile	Ala
385					390					395					400
Gln	Asp	Glu	Ile	Tyr	Glu	Glu	Ala	Ser	Ser	Glu	Glu	Glu	Asp	Ser	Tyr
			405					410						415	
Ser	Arg	Cys	Pro	Ala	Ile	Thr	Gln	Asn	Asn	Phe	Leu	Thr			
			420					425							

<210> 255
 <211> 531
 <212> PRT
 <213> Homo sapiens

<400> 255

Met	Ser	Arg	Ser	Pro	Gln	Arg	Ala	Leu	Pro	Pro	Gly	Ala	Leu	Pro	Arg
				5					10					15	
Leu	Leu	Gln	Ala	Ala	Pro	Ala	Ala	Gln	Pro	Arg	Ala	Leu	Leu	Pro	Gln
			20					25					30		
Trp	Pro	Arg	Arg	Pro	Gly	Arg	Arg	Trp	Pro	Ala	Ser	Pro	Leu	Gly	Met
		35				40						45			
Lys	Val	Phe	Arg	Arg	Lys	Ala	Leu	Val	Leu	Cys	Ala	Gly	Tyr	Ala	Leu
	50					55					60				
Leu	Leu	Val	Leu	Thr	Met	Leu	Asn	Leu	Leu	Asp	Tyr	Lys	Trp	His	Lys
	65			70						75					80
Glu	Pro	Leu	Gln	Gln	Cys	Asn	Pro	Asp	Gly	Pro	Leu	Gly	Ala	Ala	Ala
				85					90					95	
Gly	Ala	Ala	Gly	Gly	Lys	Leu	Gly	Ala	Pro	Arg	Ala	Ala	Ser	Gly	Arg
			100				105						110		
Ala	Ala	Pro	Cys	Ser	Cys	Pro	Phe	Gly	Pro	Pro	His	Ser	Leu	Pro	Pro
		115					120					125			
Ser	Arg	Cys	Arg	Arg	Arg	Gly	Asp	Thr	Leu	Gln	Pro	Arg	Gln	Gly	Trp
	130					135					140				
Arg	Gly	Leu	Arg	Pro	Leu	Gln	Ala	Met	Ala	Leu	Gly	Ala	Pro	Glu	Gly
145				150						155					160
Val	Gly	Asp	Lys	Arg	His	Trp	Met	Tyr	Val	Phe	Thr	Thr	Trp	Arg	Ser
			165					170						175	
Gly	Ser	Ser	Phe	Gly	Glu	Leu	Phe	Asn	Gln	Asn	Pro	Glu	Val	Phe	
			180				185					190			
Phe	Leu	Tyr	Glu	Pro	Val	Trp	His	Val	Trp	Gln	Lys	Leu	Tyr	Pro	Gly
	195						200					205			
Asp	Ala	Val	Ser	Leu	Gln	Gly	Ala	Ala	Arg	Asp	Met	Leu	Ser	Ala	Leu
	210				215					220					
Tyr	Arg	Cys	Asp	Leu	Ser	Val	Phe	Gln	Leu	Tyr	Ser	Pro	Ala	Gly	Ser
225				230						235					240
Gly	Gly	Arg	Asn	Leu	Thr	Thr	Leu	Gly	Ile	Phe	Gly	Ala	Ala	Thr	Asn
			245					250						255	
Lys	Val	Val	Cys	Ser	Ser	Pro	Leu	Cys	Pro	Ala	Tyr	Arg	Lys	Glu	Val
		260						265					270		
Val	Gly	Leu	Val	Asp	Asp	Arg	Val	Cys	Lys	Lys	Cys	Pro	Pro	Gln	Arg
		275					280								

Leu Ala Arg Phe Glu Glu Glu Cys Arg Lys Tyr Arg Thr Leu Val Ile
 290 295 300
 Lys Gly Val Arg Val Phe Asp Val Ala Val Leu Ala Pro Leu Leu Arg
 305 310 315 320
 Asp Pro Ala Leu Asp Leu Lys Val Ile His Leu Val Arg Asp Pro Arg
 325 330 335
 Ala Val Ala Ser Arg Ile Arg Ser Arg His Gly Leu Ile Arg Glu
 340 345 350
 Ser Leu Gln Val Val Arg Ser Arg Asp Pro Arg Ala His Arg Met Pro
 355 360 365
 Phe Leu Glu Ala Ala Gly His Lys Leu Gly Ala Lys Lys Glu Gly Val
 370 375 380
 Gly Gly Pro Ala Asp Tyr His Ala Leu Gly Ala Met Glu Val Ile Cys
 385 390 395 400
 Asn Ser Met Ala Lys Thr Leu Gln Thr Ala Leu Gln Pro Pro Asp Trp
 405 410 415
 Leu Gln Gly His Tyr Leu Val Val Arg Tyr Glu Asp Leu Val Gly Asp
 420 425 430
 Pro Val Lys Thr Leu Arg Arg Val Tyr Asp Phe Val Gly Leu Leu Val
 435 440 445
 Ser Pro Glu Met Glu Gln Phe Ala Leu Asn Met Thr Ser Gly Ser Gly
 450 455 460
 Ser Ser Ser Lys Pro Phe Val Val Ser Ala Arg Asn Ala Thr Gln Ala
 465 470 475 480
 Ala Asn Ala Trp Arg Thr Ala Leu Thr Phe Gln Gln Ile Lys Gln Val
 485 490 495
 Glu Glu Phe Cys Tyr Gln Pro Met Ala Val Leu Gly Tyr Glu Arg Val
 500 505 510
 Asn Ser Pro Glu Glu Val Lys Asp Leu Ser Lys Thr Leu Leu Arg Lys
 515 520 525
 Pro Arg Leu
 530

<210> 256
 <211> 378
 <212> PRT
 <213> Homo sapiens

<400> 256
 Met Arg Arg Leu Asn Arg Lys Lys Thr Leu Ser Leu Val Lys Glu Leu
 5 10 15
 Asp Ala Phe Pro Lys Val Pro Glu Ser Tyr Val Glu Thr Ser Ala Ser
 20 25 30
 Gly Gly Thr Val Ser Leu Ile Ala Phe Thr Thr Met Ala Leu Leu Thr
 35 40 45
 Ile Met Glu Phe Ser Val Tyr Gln Asp Thr Trp Met Lys Tyr Glu Tyr
 50 55 60
 Glu Val Asp Lys Asp Phe Ser Ser Lys Leu Arg Ile Asn Ile Asp Ile
 65 70 75 80
 Thr Val Ala Met Lys Cys Gln Tyr Val Gly Ala Asp Val Leu Asp Leu
 85 90 95
 Ala Glu Thr Met Val Ala Ser Ala Asp Gly Leu Val Tyr Glu Pro Thr
 100 105 110

Val Phe Asp Leu Ser Pro Gln Gln Lys Glu Trp Gln Arg Met Leu Gln
 115 120 125
 Leu Ile Gln Ser Arg Leu Gln Glu Glu His Ser Leu Gln Asp Val Ile
 130 135 140
 Phe Lys Ser Ala Phe Lys Ser Thr Ser Thr Ala Leu Pro Pro Arg Glu
 145 150 155 160
 Asp Asp Ser Ser Gln Ser Pro Asn Ala Cys Arg Ile His Gly His Leu
 165 170 175
 Tyr Val Asn Lys Val Ala Gly Asn Phe His Ile Thr Val Gly Lys Ala
 180 185 190
 Ile Pro His Pro Arg Gly His Ala His Leu Gly Ser Thr Cys Gln Pro
 195 200 205
 Trp Asn Leu Thr Ile Phe Ser His Arg Ile Asp His Leu Ser Phe Gly
 210 215 220
 Glu Leu Val Pro Ala Ile Ile Asn Pro Leu Asp Gly Thr Glu Lys Ile
 225 230 235 240
 Ala Ile Asp His Asn Gln Met Phe Gln Tyr Phe Ile Thr Val Val Pro
 245 250 255
 Thr Lys Leu His Thr Tyr Lys Ile Ser Ala Asp Thr His Gln Phe Ser
 260 265 270
 Val Thr Glu Arg Glu Arg Ile Ile Asn His Ala Ala Gly Ser His Gly
 275 280 285
 Val Ser Gly Ile Phe Met Lys Tyr Asp Leu Ser Ser Leu Met Val Thr
 290 295 300
 Val Thr Glu Glu His Met Pro Phe Trp Gln Phe Phe Val Arg Leu Cys
 305 310 315 320
 Gly Ile Val Gly Gly Ile Phe Ser Thr Thr Gly Met Leu His Gly Ile
 325 330 335
 Gly Lys Phe Ile Val Glu Ile Ile Cys Cys Arg Phe Arg Leu Gly Ser
 340 345 350
 Tyr Lys Pro Val Asn Ser Val Pro Phe Glu Asp Gly His Thr Asp Asn
 355 360 365
 His Leu Pro Leu Leu Glu Asn Asn Thr His
 370 375

<210> 257
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 257
 Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu
 5 10 15
 Ser Gly Ile Gln Gly Val Pro Leu Ser Arg Thr Val Arg Cys Thr Cys
 20 25 30
 Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu
 35 40 45
 Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Val Glu Ile Ile Ala
 50 55 60
 Thr Met Lys Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys
 65 70 75 80
 Ala Ile Lys Asn Leu Leu Lys Ala Val Ser Lys Glu Met Ser Lys Arg
 85 90 95

Ser Pro

<210> 258
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 258
 gaattcggca cgagggtggt aggtgagat gcaggagctc gccatccagc tgcacaagcg 60
 ctgcgaggag gtagaggcca cgcggggcca ggtgtgtcag gagcaggagc tgcgcgccgt 120
 ggtggagagc tgctgctgga gcaggaccgc gcccgcgagg acctccaggc ccggctgcgg 180
 gagacgtggg ccctggcccg ggatgctgcc ctcgctcctgg accagctgcg agcctgtcaa 240
 gctgagctgt catctcgagt gaggcaggac cagccccctg gtacagccac tctgggccta 300
 gccgtcccc cagctgactc caagggtggt caagcgtccc tgcaggccat gaggctcccc 360
 gagctctcgg gagccctgga ggaccgtgtc cgtgagatgg ggcaagcact gtgcttagtg 420
 acccagagcc tggagaagct gcagggtgctg aacgggaaga agtggcgagg gacctagcct 480
 gcgggcccga tctgacgttg ggtgattggt ccacctgaa gctgtgtgcc 530

<210> 259
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 259
 gaattcggca cgaggccagt tcagttctgca agcgccagct cctctcatgg ccggcttacc 60
 caccgccttg ccaatgcccc ggggcaaacc tcataccacc acttccagaa cactgatcat 120
 gacaaccaac aatcaggtag gtggtcctct ggcacccttc ccgctggtgg tccctgggaa 180
 cagcatccga gctgtgatat gcactagagg agattgatgg tcctttgaat tagaagagta 240
 actttttgag tatttggcca ttggtgtgtt gttctaggaa atcctctctt ttttgtggtg 300
 ttgaggtccc ccatgtatag tttcagcagc gaggacactg tggttcttg 349

<210> 260
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 260
 gaattcggca cgaggcaatc atggcgccac ctgtgagata ctgcatcccc ggccaacgtc 60
 tgtgttaactt ggaggagggc agcccgggca gcggcaccta caccgcccac ggctacatct 120
 tttcgtcgct tgccggctgt ctgatgaaga gcagcgagaa tggcgcgctt ccagtgggtg 180
 ctgtagttag agaaacagag tcccagttac tgccagatgt gggagctatt gtaacctgta 240
 aggtctctag catcaattca cgttttgcca aagtacacat cctgtatgtg gggctccatgc 300
 ctcttaagaa ctcttttcga ggaactatcc gcaagggaaga tgtccgagca actgaaaaag 360
 acaaggttga aattttataag agtttccgcc caggtgacat tgtcttggtc aaagtgatct 420
 ccttaggtga tgcacagtc aactacctgc taaccaccgc cgagaacgag ctgggagtgg 480
 tggtagccca cagttagtca ggtatccag 509

<210> 261
 <211> 510
 <212> DNA
 <213> Homo sapiens

<400> 261

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gaattcggca cgagggtgcat gttgtgtgag gatcccgggg ccgcgcgcgc gctcggggccc 60
cgccatggcc gtcaccatca cgtcaaaaac gctgcagcag cagaccttca agatccgcat 120
ggagcctgac gagacggtga aggtgctaaa ggagaagata gaagctgaga agggctcgtga 180
tgcttcccc gtggctggac agaaactcat ctatgccggc aagatcttga gtgacgatgt 240
ccctatcagg gactatcgca tccgatgagaa gaactttgtg gtcgtcatgg tgaccaagac 300
caaagccggc cagggtacct cagcaccccc agaggcctca cccacagctg cccagagtc 360
ctctacatcc ttcccgctg cccccacctc aggcattgtc catccccac ctgccgccag 420
agaggacaag agcccatcag aggaatccgc ccccacgacg tccccagagt ctgtgtcagg 480
ctcttgttcc ctcttcaggg aacaaccggg

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<210> 262

<211> 432

<212> DNA

<213> Homo sapiens

<400> 262

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gacatgtaat tcttatttat ttttcaccct caacaaggaa gaaagggtctc tccctcaatt 60
ctgctcttcc aatacttgag gataggcacc cctaaccctc ctctctccag ggaggcctca 120
gcatcagtgt ctgtggacgt agtctctgaa gagtgttca gctgatggg aaggagaaac 180
tcaagacaga gatcctccta gggatggcgt cactttctct ccaactttct cgttgctct 240
ccttgaaagc agaagaagt ccagccctca gcttcctgca gatcttgggc tctagggcc 300
ttgtacaagt ccatggccct ctggttccag tccaggacgg ccaggcggaa ttgggagcag 360
cccttatcca aggccacctc agccaccttt ttgattattt tggaaccaat cccttgacct 420
cgatattccg gc

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<210> 263

<211> 614

<212> DNA

<213> Homo sapiens

<400> 263

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gaattcggca cgaggcgcag agttgtcgt actggagaag tccctgggac tgagtaaggg 60
gaataaatac agtgctcagg gcgagcgaca gattccagtt ctccagacaa acaatggctc 120
aagtctaaca ggattgacta ctatagcagc tcatctagtc aagcaagcca acaaagaata 180
ttgtctgggg agtactgcag aagaaaaagc aatcgttcag cagtgggttag aatacagggt 240
cactcaagta gatgggcact ccagtaaaaa tgacatccac aactgttga aggatcttaa 300
ttcatatctt gaagataaag tctaccttac aggggtataac ttacattag cagatatact 360
attgtactat ggacttcac gctttatagt tgacctgaca gttcaagaaa aggagaaata 420
tcttaatgta tctcgtcgtg tttgtcacat tcagcattat ccaggcatca ggcaacatct 480
gtctagtgtt ggtcttcac aagaacagac tatatactaa tccccctaga aagctgtcca 540
tgccatacag aagatctatt aaaaaatgtt taaaaatgga aaatgtactc ttagaaccac 600
aggacttaat ggta

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<210> 264

<211> 336

<212> DNA

<213> Homo sapiens

<400> 264

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gaattcggca cgaggggcac aacagagccg ctccccctct ctgcgccgcg caccgggacg 60
gagagcggcc gccggtgcat ttccggcgac acctcgcagt cattcctgcg gcttgccgcg 120
ccttgtagac agccggggcc ttcgtgagaa cgggtgcagg ctggggtagt ctctgtctg 180
gacagagaag agaaaaatgc aggacactgg ctcaagagt cctttgcatt ggtttggctt 240
tggtacacca gcactggttg cttctggtgg gaatatattg tattgaaaag caagcaagcg 300

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tgcgcgtccct ggctgcaggg ctgctctttt ggaagt

336

<210> 265
<211> 487
<212> DNA
<213> Homo sapiens

<400> 265
gaattcggca cgagggtgact gtgggaaact cggaacaacg ctcacatctt cctgtgggaa 60
accttctagc aacaggatga gtctgcagtg gactgcagtt gccaccttcc tctatgcgga 120
ggtcttttgt gtgttgcttc tctgcattcc cticatttct cctaaaagat ggcagaagat 180
tttcaagtcc cggctggtgg agttgttagt gtccatgggc aacaccttct ttgtggttct 240
cattgtcatc cttgtgctgt tggatcatga tgcgcgtgcg gaaattcggg agtatgatga 300
tgtgacggaa aaggtgaacc tccagaacaa tcccggggccc atggagcact tccacatgaa 360
gcttttccgt gccagagga atctctacat tgcgtgcttt tccttgctgc tgccttccct 420
gcttagacgc ctggtgactc tcatttcgca gcaggccacg ctgctggcct ccaatgaagc 480
ctttaaa 487

<210> 266
<211> 418
<212> DNA
<213> Homo sapiens

<400> 266
gaattcggca cgaggccgtg acctgctagc tgagcagcgc ttcccgggcc gcgtgctgcc 60
ctcggacttg gacctgctgt tgcacatgaa caacgcgcgc tacctgcgcg aggcgcactt 120
tgccagcgtc gcgcacctga cccgctgcgg ggtgctcggg gcgctgaggg agttgcgggc 180
gcacacggtg ctggcggcct cgtgcgcgcg ccaccgcgcg tcgctgcgcg tgcaggagcc 240
cttcgagggt cgcacccgcc tgcagggtg ggacgaccgc gcgttctacc tggaggcgcg 300
ctttgtcagc ctgcgggacg gtttcgtgtg cgcgctgctg cgttccggc agcacctgct 360
gggcacctca cccgagcgcg tcgtgcagca cctgtgcca cgaagggtg aacccccct 418

<210> 267
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(418)
<223> n = A,T,C or G

<400> 267
gaattcggca cgaggctggc tcccaccctg gagttggctc aacagattga ggaagagacc 60
atcaagtttg ggaaccgcgt aggtatccgc actgtggctg tcattggtgg catctccaga 120
gaagaccagg gcttcaggct gcgcattggg tgtgagattg tgattgctcc cctgggcgtt 180
tgattgatgt gctggaaaac ccgtnccctg tgcctgacct gctgtacctg tgtggttctg 240
gatgaggcag ataggatgat tgacatgggc tttgagccag atgtccagaa gatcctggag 300
cacatgcctt gtcagcaacc agaagcccaa acacggatga agcttgagga cccctgagaa 360
aatgcttggt ccaacttttg agtcgggaaa acattaagta cccgcccaaa cagtcatt 418

<210> 268
<211> 266
<212> DNA

<213> Homo sapiens

<400> 268

```
gaattcggca cgagggcttc tcaactgagt cctactttta tgtcctgcct gtggtgagca 60
caaatgttga gcacatcaat ccccatTTTg tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaaga 240
gagatgcctt ttccatttca accttt 266
```

<210> 269

<211> 235

<212> DNA

<213> Homo sapiens

<400> 269

```
gaattcggca cgagggctcc tgcagccttt tcgctgggac tgcgcgacac cgccccccga 60
ccgggtgccc gctgtgtgcc aggcggggtg ctgggcacgg tcccgcgagt gccctataag 120
gactgccagg caataatgaa ggTtctTTTa ctgaaggatg cgaaggaaga tgactgtggc 180
caggatccgt atatcaggga attaggatta tatggacttg aagccacttt gatcc 235
```

<210> 270

<211> 386

<212> DNA

<213> Homo sapiens

<400> 270

```
gaattcggca cgaggggttcc tgcggggccg ccgggtgctg gtcaccgggg caggcaaagg 60
tataggcgcg gccacggtcc aggcgctgca cgcgacgggc gcgcggggtg tggctgtgag 120
ccggactcag gcggatcttg acagccttgt ccgcgagtgc ccggggatag aaccctgtgt 180
cgtggacctg ggtgactggg aggccaccga gcgggcgctt gggcagcgtg ggccccgttg 240
acctgctggt gaacaacgcc cgtgtgcgcc ctgctgcagc ccttcttgga ggTcaccaag 300
gaggcctttg acagatcctt tgaggtgaac ctgctgcggg catccagtgt cacagattgt 360
ggcaggggct taatacccg gagtcc 386
```

<210> 271

<211> 406

<212> DNA

<213> Homo sapiens

<400> 271

```
gaattcggca cgaggggctg ctggctggct aagtcctcc cgtcccggc tctcgctca 60
ctaggagcgg ctctcggtgc agcgggacag ggcgaagcgg cctgcgcca cggagcgcg 120
gacactgccc ggaagggacc gccacccttg cccctcagc tgccactcg tgatttccag 180
cggcctccgc gcgcgcacga tgccctcggc caccagccac agcgggagcg gcagcaagtc 240
gtccggaccg ccaccgccgt cgggttccct cgggagttag gcggccgagg gagccgggc 300
cgccgcgcgg gcttctagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg 360
aagcagattc tcggggtgat cgacaagaaa cttcggaacc tggaga 406
```

<210> 272

<211> 365

<212> DNA

<213> Homo sapiens

<400> 272

```

gaattcggca cgaggctcgc ctactagga gcggctctcg gtgcagcggg acagggcgaa 60
gcggcctgcg cccacggagc ggcgcacact gcccggaagg gaccgccacc cttgccccct 120
cagctgccca ctcgtgattt ccagcggcct ccgcgcgcgc acgatgccct cggccaccag 180
ccacagcggg agcggcagca agtcgtccgg accgccaccg ccgtcggggt cctccgggag 240
tgaggcggcc gcgggagcgc gggccgcgcg ccggcttcta gcaccccgca accggcaccg 300
gcgctgtcca gaccgaggcc atgaagcaga ttctcggggg gatcgacaag aaacttcgga 360
acctg                                           365

```

```

<210> 273
<211> 376
<212> DNA
<213> Homo sapiens

```

```

<400> 273
gaattcggca cgaggctttg gccactcaga gccccgggc cgcggtcgtc gtacgcctga 60
aggcgggtcg tgccggcggc cgctctagtc tccgcctccg ctccaggccg tectccgggg 120
cttctcaatg gtttcccggt ggcctctcaa tggttttccc ggcggccctt gcgcgcagc 180
caggagactt ccggagcttg gtgacgtcac agagcgagct tttctaccca aatacgcggc 240
gggggaatag gctcgagggc ggggagcagt gacaattgct aggcggagac agtgcaggga 300
agagagacct tataaaggat caggactggc gggaggtatt taactgaaag gaatatctgc 360
ttcactgttg caacca                                           376

```

```

<210> 274
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<400> 274
gaattcggca cgaggcttgg gtccgtcgtc gttcgggtgt ccctgtcggg cttcccagca 60
gcggcctagc gggaaaagta aaagatgtct gaatatattc gggtaaccga agatgagaac 120
gatgagccca ttgaaatacc atcggaagac gatgggacgg tgctgctctc cagcgttaca 180
gccagtttc caggggcgtg tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240
ggtgtccggc tggtagaagg aattctgcat gcccagatg ctggctgggg aaatctgggt 300
tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 360
gcagtgaag tgaaaagagc agtcc                                           385

```

```

<210> 275
<211> 395
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(395)
<223> n = A,T,C or G

```

```

<400> 275
gaattcggca cgagggggag cggagagcgg accccagaga gccctgagca gcccaccgc 60
cgccgcgggc ctagttacca tcacaccccg ggaggagcgg cagctgccgc agccggcccc 120
agtcaccatc accgcaacca tgagcagcga ggccgagacc cagcagccgc ccgcccccc 180
ccccgcgcgc cccgcctca ggcgcgcga caccaagccc ggcactacgg gcagcggcgc 240
aaggagcggg ggcgcgggcg gcctcacatt cggcggggcc ttgccggcgg ggacaaagaa 300
aggcattcgc caacgaaggg ttttgggaaa caagtaaaat gggttcaatt gtaaggggaa 360
cggatttttg ttttnattca accagggaaa ttgac                                           395

```


<210> 276
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 276
 gaattcggca cgagggcagg ggtggctcctg gctggcattg cctgagccgg cagtgatgaa 60
 gtggggagct tgcccttgac aggtgggggc tggctggggc cttaatgtga aaagacagtg 120
 gcaggcagct ggagtagagc gagcccagca gccctaaaag gctgccttca tggccatcta 180
 gccccagttc agggcagcat ccatagccca caagccagcg tgggtggggc gggggtggtc 240
 ccacagctgg gttccacctg aagagcctcc gtgcctcgga gc 282

<210> 277
 <211> 615
 <212> DNA
 <213> Homo sapiens

<400> 277
 gaattcggca cgagggccggt cggcctgggc aacctgcgct gaagatgccg ggaaaactcc 60
 gtagtgacgc tggtttgga tccagacaccg caatgaaaaa aggggagaca ctgcaaaagc 120
 aaaccgagga gaaagagaaa aaagagaagc caaaatctga taagactgaa gagatagcag 180
 aagaggaaga aactgttttc cccaaagcta aacaagttaa aaagaaagca gaggccttctg 240
 aagttgacat gaattctcct aaatccaaaa aggcacaaaa gaaagaggag ccattctcaa 300
 atgacatttc tcctaaaacc aaaagtgtga gaaagaaaaa ggagcccatt gaaaagaaag 360
 tggtttcttc taaaaccaaa aaagtgaaca aaaatgagga gccttctgag gaagaaatag 420
 atgctcctaa gcccaagaag atgaagaaag aaaaggaaat gaatggagaa actagagaga 480
 aaagccccaa actgaagaat ggatttcctc atcctgaacc ggactgtaac cccagtgaag 540
 ctgccagtga agaaagtaac agtgagatag agcaggaaat cctgtggaac aaaaagaagg 600
 cgctttctct atttt 615

<210> 278
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 278
 gaattcggca cgaggagaaa gggaaaaaag gcgtaaagac agacatgaag caagtgggtt 60
 tgcaaggaga ccagatccag attctgatga agatgaagat tatgagcgag agaggaggaa 120
 aagaagtatg ggcggagctg ccattgcccc acccacttct ctggtagaga aagacaaaaga 180
 gttaccccgga gattttcctt atgaagaagg actcaagacc tcgatcacag tctttccaag 240
 cagccctttc ttccccaggt gtaccgaagg aaccaagaac agacccgaga atcttccacc 300
 cggaccctta gcaaac 316

<210> 279
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(393)
 <223> n = A,T,C or G

<400> 279

```

gaattcggca cgagggtgaa accaacttat tgggctcaat cccatttggt cacaggatac 60
tgtacgtatc ttccctttcca gagatttgat atcaccaga caccgccagc atacataaac 120
gtgttaccag gtttgcccca gtacaccagc atatatacac ccttggccag cctttctcct 180
gaatatcagc taccaagatc agtaccagtg gtgcgctctt ttgtagccaa tgacagagca 240
gaaaaaaatg ctggctgctt attttgnggg gcattcattt tgaaatggct tgagaaatgg 300
ttggctgggt caccagaaat tggccttctt gaaaaccaca agaatccctt tggaaggggg 360
cttctttttt gggaaaataa tcttggtaaa aag 393

```

<210> 280

<211> 454

<212> DNA

<213> Homo sapiens

<400> 280

```

gaattcggca cgaggcagca atgcggtaga tatgacgtaa acaaattata attaagctag 60
tggatactca gagatcaaaa gaactgcaca ttgcattctg gagcatgaga aatcattttt 120
tttttcatga tgtctaactc tactgaattt attcaatgga gataacagaa agatgattat 180
atatgattaa attacttcca gtattagcag atgcttattt aaataacttg ttgttctttc 240
tgcaattcca catagaatta aggcaatagt ttaaaagaaa atttaaaaag taacttttct 300
agcattttta tgtagacctg tgaattctaa cacatttgca gtgtagccat cctaattgact 360
aaccagactt gaacaaaatc caacttgcaa aaacgatgca atataaatac caatcaccaa 420
taataggtag tctcactttt aaaaacctgt gtct 454

```

<210> 281

<211> 613

<212> DNA

<213> Homo sapiens

<400> 281

```

gaattcggca cgagggtgagc tcttcgttgc ccagtttccg ctcaagtggc gcgtctccgc 60
ccccaccca ccagtcctgc tgcattctcg gccgggctct aggcgccatg gctccccgcg 120
ggagggaagcg taaggctgag gccgcggttg tgcgcgtagc cgagaagcga gagaagctgg 180
cgaacggcgg ggagggaatg gaggaggcga ccgttgttat cgagcattgc actagctgac 240
gcgtctatgg gcgcaacgcc gccggcctga gccaggcgct gcgcctggag gccccagagc 300
ttccagtaaa ggtgaacccg acgaagcccc ggaggggcag cttcgagggt acgctgctgc 360
gcccggaacg cagcagtgcg gactcttga ctgggattaa gaaggggccc ccacgcaaac 420
tcaaattccc tgagcctcaa gaggtggttg aagagttgaa gaagtacctg tcgtaggagg 480
atttgggtag aagcctcat gctgagcttt gtgtccctgg tgatgttgga acattaatga 540
tggaacatgg ccaaacttca gtcattgatc tgaagccatg gtttcttccc tgccagaaat 600
gaaggttcat tat 613

```

<210> 282

<211> 313

<212> DNA

<213> Homo sapiens

<400> 282

```

gaattcggca cgaggcgaga acgggcacgg ggagcagcag cctcaaccgc cggcgacgca 60
gcagcaacag cccaacagc agcgcggggc cgccaaggag gccgcgggga agagcagcgg 120
ccccacctcg ctgttcgcgg tgacggtggc gccgccggg gcgaggcagg gccagcagca 180
ggcgggaggt aagaagaagg cggaaggcgg cggaggcgcc ggtcgccccg gggctccggc 240
ggcgggggac ggcaaaacag aacagaaagg cggagataaa aagaggggtg ttaaaagacc 300
accacaagat cat 313

```

<210> 283
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 283
 gaattcggca cgaggcctgg cgggggagac gagttgcatg tgttggttca gctggcgata 60
 gcggcgggag cggagccggc ggggcctgtg cgaccgcctg ggtttgtgaa atggctgctg 120
 acatttctga atccagcggg gctgactgca aaggagaccc aaggaacagt gccaggttag 180
 atgccgatta cccacttcga gtcctttatt gtggagtctg ttcattacca acagagtact 240
 gtgaatatat gctgatgtt gctaaatgta gacaatggtt agagaagaat tttccaaatg 300
 aatttgcaaa acttactgta gaaaattcac ccaacaaga agctggaatt agtgagggtc 360
 aaggaacagc aggggaagaa gaggagaaga aaaaacagaa gagaggtgga aggggtcaaa 420
 taaaacaaaa aaagaagacc gtaccacaaa aggttactat agccaaaatt ccagagcaaa 480
 agaagaaata tgtgacaaga gtatgtggcc ttgcaacttt tgaaattgat cttaaaagaag 540
 cacaaagatt ttttgc 557

<210> 284
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 284
 gaattcggca cgaggctcac taggagcggc tctcggtgca gcgggacagg gcgaagcggc 60
 ctgcgcccac ggagcgcgcg acactgcccg gaagggaccc ccacccttgc cccctcagct 120
 gccactcgt gatttccagc ggccctccgc cgcgcacgat gccctcggcc accagccaca 180
 gcgggagcgg cagcaagtgc tccggaccgc caccgcgcgc gggttcctcc gggagtggag 240
 cgcccgcggg agccggggcc gccgcgcgcg cttctcagca ccccgcaacc ggcaccggcg 300
 ctgtccagac cgaggccatg aagcagattc tcggggtgat cgacaagaaa cttcgggaacc 360
 tggagaagaa aaagggttaag cttgatgatt accaggaacg aatgaacaaa ggggaaaggc 420
 ttaatcaaga tcagctggat gccgtttcta agtaccagga agtcacaaat aatttgaggt 480
 ttgcaaaaaga attacagagg agtttcatgg cactaagtca agatattcag aaaacaataa 540
 agaagacagc acgtcgggag cagcttatga aaaaagaact gaacagaaac gtttaaaaac 600
 ttgtacttga actacagtat tgttttgg 627

<210> 285
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 285
 gaattcggca cgagggcgag aacgaccccc ggaccgacca aagcccgcgc gccgctgcat 60
 cccgcgtcca gcacctacgt cccgctgccc tcgcgcgcgc caccatgcc cagagaaagg 120
 ctgaaggagg tgctaaggga gataaagcaa aggtgaagga cgaaccacag agaagatccg 180
 cgaggttgtc tgctaaacct gtcctcccaa agccagagcc caagcctaaa aaggcccttg 240
 caaagaagg agagaaggta cccaaaggga aaaagggaag agctgatgct ggcaaggagg 300
 ggaataacct tgcagaaaat ggagatgcc aacagacca ggcacagaaa gctgaagggtg 360
 ctggagatgc caagtgaagt gtgtgcattt ttgataactg tgtacttctg gtgactgtac 420
 agtttgaaat actatttttt atcaagtttt ataaaaatgc agaattttgg tttt 474

<210> 286
 <211> 576
 <212> DNA

<213> Homo sapiens

<400> 286

```

gaattcggca cgaggggaat ctgtgaagct cactactgga ccaaacaacg ctggagctca 60
aagtagttct tcatgtggga cttctggcct tccagtttct gcacagacag ccttggcaga 120
acaacagcca aaaagcatga aaagccagc ttctccagag cctggtttct gtgctactct 180
ttgccctatg gtagaaattc cacctaaaga tataatggca gaattggagt cagaggatat 240
cttgatccct gaagaatctg taattcagga ggaaattgca gaagaggtag agactagtat 300
ctgtgaatgc caggatgaaa atcataagac aatacctgaa ttttctgagg aggctgaaag 360
tctaaccaat tctcatgaag aaccccaaat agcacctcct gaagataact tggaaatcctg 420
tgttatgatg aatgatgttt tagaaacttt gcctcatatt gaagttaaga tagaaggga 480
gtcagaatca cccaggaag aatgacagt tgttatcgat cagttagaag tctgtgactc 540
tcttattcct tccacttcat ctatgactca tgtcag 576

```

<210> 287

<211> 514

<212> DNA

<213> Homo sapiens

<400> 287

```

gaattcggca cgagggcagag aggtttgcc aagagcgag gctgagaata tggagagact 60
atgtggctcc cacagcta at tggacaaa aggacaagca gtttgttgcc aagggtgatgc 120
aggttctgaa tgctgatgcc attgttgtga agctgaactc aggcgattac aagacgattc 180
acctgtccag catccgacca ccgaggctgg agggggagaa caccaggat aagaacaaga 240
aactgcgtcc cctgtatgac attccttaca tgtttgaggc ccgggaattt cttcgaaaaa 300
agcttattgg gaagaaggtc aatgtgacgg tggactacat tagaccagcc agcccagcca 360
cagagacagt gctgccttt tcagagcgta cctgtgccac tgtcaccatt ggaggaataa 420
acattgctga ggctcttgtc agcaaaggtc tagccacagt gatcagatac cggcaggatg 480
atgaccagag atcatcacac tacgatgaac tgct 514

```

<210> 288

<211> 456

<212> DNA

<213> Homo sapiens

<400> 288

```

gaattcggca cgagggggcg ggcaggcggg caggccggca ggcgggtgcg cggagggctg 60
gtgccccgca gcaggtgggc ggggtgcggt tggcggcggc ggctgggccc ggggctgccg 120
gctgcgctcg ggcggtgcgc ggcggccgtg cgggcacgcc atggacttca acatgaagaa 180
gctggcgctg gacgcgggca tcttcttcac ccgggcgggtg cagttcacgg aggagaaatt 240
tggccaggct gagaagactg agcttgatgc ccactttgaa aaccttcttg cccgggcaga 300
cagcaccaag aactggacag agaagatctt gaggcagaca gaggtgctgc tgcagcccaa 360
ccccagtgcc cgagtggagg agttcctgta tgagaagctg gacaggaagg tcccctcaag 420
ggtcaccaac ggggagctgc tggtcagta catggc 456

```

<210> 289

<211> 262

<212> DNA

<213> Homo sapiens

<400> 289

```

gaattcggca cgagggcagaa gcccctagct cctctgagcc tcatggggcc agaggaagca 60
gtagtccggg cggcaagaaa tgctacaagc tggagaatga gaagctgttc gaagagttcc 120
ttgaactttg taagatgcag acagcagacc accctgaggt ggtcccatc ctctataacc 180

```

ggcagcaacg tgcccaactct ctgttttttgg cctcggggga gttctgcaac atcctctcta 240
gggtcctgtc tcgggcccgg ac 262

<210> 290
<211> 205
<212> DNA
<213> Homo sapiens

<400> 290
gaattcggca cgaggattta tggggcaactg cacatgcccg ctgcagccct gggatcagct 60
ggaagctgcc tgtcatctcc tgcccaatcc ccagaaaccc tgattcaggt ctgcaggctc 120
ctgcgggctc accaggctgc tggctccggg accatgtaaa cctaggaagg taaaggagca 180
ggcaacctcc tcgtggcctg tgtgt 205

<210> 291
<211> 483
<212> DNA
<213> Homo sapiens

<400> 291
gaattcggca cgaggcctgg ccgggaccgt gtgggcccgt aggatgagga cggctgggag 60
acgcgagggg accgcaaggc ccggaagccc ctggtggaga agaagcggcg cgcgcggatc 120
aacgagagcc tgcaggagct gggctgctg ctggcgggcg ccgaggtgca ggccaagctg 180
gagaacgccg aagtgtctga gctgacggtg cggcgggtcc aggtgtgtct gcggggcccg 240
gcgcgcgagc gcgagcagct gcaggcggaa gcgagcgaac gcttcgctgc cggctacatc 300
cagtgcctgc acgaggtgca cacgttcgtg tccacgtgcc aggccatcga cgctaccgtt 360
ctgccgagct cctgaacctat ctgctcgagt ccatgccgct gcgtgagggc agcaacttca 420
ggatctgctg ggggacgccc tgcggggcca cctaaatccc ctggacggaa tggctggctg 480
cgg 483

<210> 292
<211> 562
<212> DNA
<213> Homo sapiens

<400> 292
gaattcggca cgagggcgct gcgggtagga gccgggttgc gggagacccc aggttcgggtt 60
gggattccca gccagaacgg agcttaagcc gggcaggcga gcgaatgac gagtagcgag 120
ctgcacggcg gcgtgctgct ctggttagga cgctgtccc cgcgctcca ggccgccccg 180
aggcttgggg tcttcgaagg ataatcggcg cccggggccg aacagcgggg gcacacgggg 240
cgctgccgaa gtgcaaggcc acggccagag ctcgagccc acgcgctgtc tggagtcgta 300
ggttggcgcc gtttggggtc ggggtctgag gcttgggcgc tgctgggccc gagcggagat 360
cgggggtttgc ctcccgctcc cgtcaggac cctgacgtgg ctgaagcggc cccgggagca 420
tgagcggcag cgcgtggacg tcaaggtggt gatgctgggc aaggagtacg tgggcaagac 480
tagcctggtg gagecgtacg tgcacgaccg ctttctggtg gggccttatc agaacacct 540
cggggccgcc ttcgtggcca ag 562

<210> 293
<211> 645
<212> DNA
<213> Homo sapiens

<400> 293
gaattcggca cgaggctgag agagagcaca gcctgggtggg ttctggggtc tacggcctag 60

```

gggccgggga agtttgcgcc gccgcgacca gtgctgcgat cccgagccgg gctccagccc 120
cgaggaccag gggtcggggc ggctgccta cggaaccccc cgggccagca gcagtcgtct 180
cgcgtcctcc tgcttgaaa agtgtttaag cttctaaaat gtcactatc aagcacctgg 240
tttatgcagt tattcgtttc ttacgggaac aaagtcagat ggacacttac acctcggtatg 300
aacaagaaag tttggaagtt gcaattcagt gcttgagagc agtttttaag atcagcccag 360
aagatacaca cctagcagtt tcacagcctt tgacagaaat gtttaccagt tcttctgtta 420
agaatgacgt tctgcccctt tcaaaactcag tgctgaaga tgtgggaaaa gctgaccaat 480
taaaagatga aggcaataac cacatgaaag aagaaaatta tgctgctgca gtggattggt 540
acacacaggc aatagaattg gatcccaata atgcagttta ctattgcaac agggctgctg 600
ctcagagcaa attaggtcac tacacagatg cgataaagga ttgtg 645

```

<210> 294

<211> 521

<212> DNA

<213> Homo sapiens

<400> 294

```

ctgagcgtct ctgcttagcc gcggtcatga gccggcacag ccggctgcag aggcaggttc 60
tgagcctgta ccgcgatctg ctgcgcgccg ggctgaggaa gccgggcgcc gaggcgcgag 120
tgccggcaga gttccggcag catgcgggcc tgccgcggtc cgacgtgctg cgcctcgagt 180
acctgtaccg ccgcgggcgg cgcagctgc agctgctacg ctccggccac gccaccgcca 240
tgggcgccct cgtacgcccg cgggccccga ccggggagcc tggcggcgtg gggtcccagc 300
ctgacgacgg cgacagtcca aggaaccccc acgacagcac gggggcaccg gagaccgcc 360
ccgacggacg gtgacaggcg aagagccgaa ctgcctcgat ggctggtgg agccaggagg 420
ctgcctgac tgcattgggg gactggggaa ccgcctaag gtgagaggtc ttaagagact 480
agcttgacga attggggatg tcagagactc ctcttggcg a 521

```

<210> 295

<211> 375

<212> DNA

<213> Homo sapiens

<400> 295

```

gaattcggca cgaggagaac atgcagtcta ggaaccggca tgcgcataac ctgagatat 60
aaataatgct gaagcagagt tacgtttttt ttgttgttgt ttttttgtt tttgttttt 120
taggtttccg tgtgtttcta ttgagctgct cagtgcccg cttagaagac caggaaaagg 180
agtcacaggt cgtatgctgg aggcttgagc cgcggcaccg tggcgcggct cgcctcgctg 240
cggttggtgg tggcgggtga cattgcagcg cggctggagg gggtccttag acaaggtgca 300
agacaaacag aagagggcat gtggggtcaa actcctactg cctgcctgat tttctgccac 360
aggacaaatt cacca 375

```

<210> 296

<211> 628

<212> DNA

<213> Homo sapiens

<400> 296

```

gaattcggca cgaggaaaat ggttcgctat tcacttgacc cggagaaccc caccgaaatca 60
tgcaaatcaa gaggttccaa tcttcgtgtt cactttaaga acactcgtga aactgctcag 120
gccatcaagg gtatgcata acgaaaagcc acgaagtatc tgaaagatgt cactttacag 180
aaacagtgtg taccattccg acgttacaat ggtggagttg gcaggtgtgc gcaggccaag 240
caatggggct ggacacaagg tcggtggccc aaaaagagtg ctgaattttt gctgcacatg 300
cttaaaaacg cagagagtaa tgctgaactt aagggtttag atgtagattc tctggctcatt 360
gagcatatcc aagtgaacaa agcacctaag atgcgccgcc ggacctacag agctcatggt 420

```

```

cggattaacc catacatgag ctctccctgc cacattgaga tgatccttac ggaaaaggaa 480
cagattgttc ctaaaccaga agaggagggt gccagaaga aaaagatata ccagaagaaa 540
ctgaagaaac caaaacttat ggcaacggag taaattctca ttaaataaaa tgtaattaaa 600
aggaaaaaaa aaaaaaaaaa aactcgag                                     628

```

<210> 297

<211> 645

<212> DNA

<213> Homo sapiens

<400> 297

```

gaattcggca cgaggagaaa acgaagcagc gttggaaaat ggaattaaaa atgaggaaaa 60
cacagaacca ggtgctgaat cttctgagaa cgctgatgat cccaacaaag atacaagtga 120
aaacgcagat ggtcaaagtg atgagaacaa ggacgactat acaatcccag atgagtatag 180
aattggacca tatcagccca atgttcctgt tggatatagac tatgtgatac ctaaaacagg 240
gttttactgt aagctgtgtt cactctttta tacaatgaa gaagttgcaa agaatactca 300
ttgcagcagc cttcctcatt atcagaaatt aaagaaattt ctgaataaat tggcagaaga 360
acgcagacag aagaaggaaa cttaatgtgt gcaaggagat ttaatgattt caaagaaaat 420
aatggttctt tgtttttaat gttaaccttt tttaaatata atactgatag ttagaagaaa 480
actattgtac tcttttgttt tagtggagaa ataatagatg tctgttcatt tgttaagtgt 540
tatagcaaaa aaaatacaca tatggttaag ttaatgaata gtttttgttt tatcagaatg 600
gcaacagaca gaagtacttt gtagagattg acttcctaag ctctt                                     645

```

<210> 298

<211> 625

<212> DNA

<213> Homo sapiens

<400> 298

```

gaattcggca cgaggggatt cagcagcctc ccccttgagc cccctcgctt cccgacgttc 60
cgttccccc tgccgcctt ctcgcgcac cgcgcgcgc gccttcgcga ggccgtttcc 120
accgaggaaa aggaatcgta tcgtatgtcc gctatccaga acctccactc ttccgacccc 180
tttgctgatg caagtaagggt tgatgacctg cttcctgctg gcactgagga ttatatccat 240
ataagaattc aacagagaaa cggcaggaag acccttacta ctgtccaagg gatcgctgat 300
gattacgata aaaagaaact agtgaaggcg tttaaagaaa agtttgctg caatggtact 360
gtaattgagc atccggaata tggagaagta attcagctac agggtgacca acgcaagaac 420
atatgccagt tctcgtaga gattggactg gctaaggacg atcagctgaa ggttcattgg 480
ttttaagtgc ttgtggctca ctgaagctta agtgaggatt tccttgcaat gagtagaatt 540
tcccttctct tcttgtcac aggtttaaaa acctcacagc ttgtataatg taaccatttg 600
gggtccgctt ttaacttgga ctagt                                     625

```

<210> 299

<211> 545

<212> DNA

<213> Homo sapiens

<400> 299

```

gaattcggca cgaggggagcc caggagggtca aggctacagt gagccgtgat catgccactg 60
cactccagcc tgggtgacag agcgagaccc tgtctcttaa caacaaaacc catgagcggc 120
agccccccag tcctggatgg tggtaaagaa tcctcaagat caaaccacag cagtgtctgag 180
agcttggcct gattctaggg ctggggctgg agaaactgct agagatgatg ccgatagcca 240
gtgtgatccc cctgcctga tggcgaagg cagagtgcag actggaacct tccctcccc 300
aaagattcag acctgtgggg ctgagtgggc tcatagtgtc ccaagtctct gagaggctgg 360
tgtctggctt cagcctccag cttctcaggt tctgatgcag tcagctgagt tccctgccta 420

```

```

ttcttgcaag cactaggagg aagggtggtg ggttgctggg aacagcaccg agcgccctcc 480
ccaccagat tcacagagca cactccccgg ggggatactt taatccggag gccgtgacgc 540
ctgct                                           545

```

```

<210> 300
<211> 605
<212> DNA
<213> Homo sapiens

```

```

<400> 300
gaattgggca cgaggcgggc cgcagctttt cggttcacag cgggcagggg aagccgcggg 60
aagggtactc caggcgagag gcgacgcga gtcgtcgtg caggaaaagt gactagctcc 120
ccttcgttgt cagccaggga cgagaacaca gccacgctcc caccggctg ccaacgatcc 180
ctcggcggcg atgtcggccg ccggtgcccg aggcctgagg gccacctacc accggctcct 240
cgataaagtg gagctgatgc tgcccgagaa attgaggccg ttgtacaacc atccagcagg 300
toccagaaca gtttttttct gggctccaat tatgaaatgg gggttggtgt gtgctggatt 360
ggctgatatg gccagacctg cagaaaaact tagcacagct caatctgctg ttttgatggc 420
tacagggttt atttggtcaa gatactcaact tgaattattt ccaaaaaatt ggagtctgtt 480
tgctgttaat ttctttgtgg gggcagcagg agcctctcag ctttttcgta tttggagata 540
taaccaagac taaaagctaa agcacacaaa taaaagagtt ctgatcacct gaacaatcta 600
gatgt                                           605

```

```

<210> 301
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<400> 301
gaattcggca cgaggcgcac acgagaacat gcctctcgca aaggatctcc ttcattccctc 60
tccagaagag gagaagagga aacacaagaa gaaacgcctg gtgcagagcc ccaattccta 120
cttcattgat gtgaaatgcc caggatgcta taaaatcacc acggtcttta gccatgcaca 180
aacggtagtt ttgtgtgttg gctgctccac tgtcctctgc cagcctacag gaggaaaagc 240
aaggcttaca gaaggatggt ccttcaggag gaagcagcac taaaagcact ctgagtcaag 300
atgagtggga aaccatctca ataaacacat tttggataaa aaaaaaaaaa aaaaaaaact 360
cgag                                           364

```

```

<210> 302
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 302
gaattccggc acgaggggac ccagagagac cctgagcagc cccaccgccg ccgcccgcct 60
agttaccatc acaccccggg aggagccgca gctgccgcag ccggccccag tcaccatcac 120
cgcaaccatg agcagcgagg ccgagaccca gcagccgccc gccgcccccc ccgcccgcct 180
cgccctcagc gccgcccaca ccaagcccgg cactacgggc agcggcgagc ggagcgggtg 240
cccgggcggc ctacatcgcg cggcgccctg cggcggggac aagaaggtca tcgcaacgaa 300
ggttttggga acagtaaaat ggttcaatgt aaggaacgga tatggtttca tcaacaggaa 360
tgacaccaag gaagatgtat ttgtacacca gactgccata aagaagaata accccaggaa 420
gtaccttcgc agtgtaggag atggagagac tgtggagttt gatgtgtgtg aaggagaaaa 480
gggtgcggag gcagcaaagt ttacaggtcc tgggtggtgt ccagttcaag gcagtaata 540
tgcag                                           545

```

```

<210> 303

```


<211> 506
 <212> DNA
 <213> Homo sapiens

<400> 303
 gaattcggca cgaggctggt cactccgcca ccgtagaate gcctaccatt tgggtgcaagc 60
 aaaaagcaat cagcaattgg acaggaaaag aatggcattg aagcagattt ccagcaacaa 120
 gtgctttggg ggattgcaga aagtttttga acatgacagt gttgaactaa actgcaaaat 180
 gaaatttgct gtctacttac caccaaaaggc agaaacagga aagtgccctg cactgtattg 240
 gctctcaggt ttaacttgca cagagcaaaa ttttatatca aaatctggtt atcatcagtc 300
 tgcttcagaa catggtcttg ttgtcattgc tccagatacc agccctcgtg gctgcaatat 360
 taaaggtgaa gatgagagct gggactttgg cactggtgct ggattttatg ttgatgccac 420
 tgaagatcct tggaaaacca actacagaat gtactcttat gtcacagagg agcttcccca 480
 actcataaat gccaattttc cagtgg 506

<210> 304
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 304
 gaattcggca cgagggagtt gtgggcccag gagccctgag gctgccggca ggtgaactga 60
 gtgcccagca gctgagaccg gcgcccaccc gtccctgagca tagctctgta ggcagtgcgg 120
 gcatagcctg catagtgtcc tggcgtggtg agttccccgt ggacagagcc agagggcagt 180
 ggcgtccctc gtcagagctg gatcaggccc cccactgagg agggagggca gacggaggcc 240
 cgagagccctc cccaggcctc ttcgtgggaa ggcccagta ccactcgtag gaggtctcag 300
 ctctggcatg gctgccccgg atgtggccga gggggcttca ccctgtgtcc ttaggagggg 360
 gtggccttga ggcaagagcc gtgcctcact gaccccaggg ggccctcatcc tccccatgga 420
 atgggctgta tgtcctgccc caacttggcc cgcagcaggg cagaccccc taccgccgcc 480
 cagag 485

<210> 305
 <211> 615
 <212> DNA
 <213> Homo sapiens

<400> 305
 gaattcggca cgaggcttac aaggaaaatg ctgacttatg accggcgctc tgagcctcag 60
 gttggggagc gattgccata cgtcatcatt tatgggaccc ccggagtacc acttatccag 120
 cttgtaaggc gccagtgga agtcctgcag gacccaactc tgagactgaa tgctacttac 180
 tatattacca agcaaatcct tccacccttg gcaagaatct tctcacttat tgggtattgat 240
 gtcttcagct ggtatcatga attaccaagg atccataaag ctaccagctc ctgcggaagt 300
 gaacctgaag ggcggaaagg cactatttca caatatTTTA ctaccttaca ctgtcctgtg 360
 tgtgatgacc taactcagca tggcatctgt agtaaattgt ggagccaacc tcagcatgtt 420
 gcagtcatcc tcaaccaaga aatccgggag ttggaacgtc aacaggagca acttgtaaag 480
 atatgcaaga actgtacagg ttgctttgat cgacacatcc catgtgtttc tctgaactgc 540
 ccagtacttt tcaaactctt ccgagtaaag agagaattgt ccaaggcacc atatcttcgg 600
 cagttattaa accag 615

<210> 306
 <211> 504
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(504)
 <223> n = A,T,C or G

<400> 306
 gaattcggca cnaggccaaa acctgttttg gaagcatatt acagaaatga tttcaagtac 60
 cctgtattct ggatgctaaa aaacaaaaac aaacaaaaaa aaaaaacaa 120
 ccagaatcag gtaaaacagc tatgtgatta aaatatTTTA attcttcagc aattaccgg 180
 ttttctaaa tgaatcatgc atctatttat aattctaatt attttgtaaa agaagacaaa 240
 attatgaatc ttaagtattt gctccatctt tttctctgta atgggtggaga ggctgcccat 300
 aattcatctc cacatggagc caagtttaat gtttctagtt cacattttgt acttctgtca 360
 tgcttatttc aaactccctg agtgatgggt aagaaatcaa acattgcctc agtggtatca 420
 agagaacttt ggtggtgggt tcttcagaat catgaagttc ttttgccaga taaatatTTT 480
 gatattattt tcttttttaa tata 504

<210> 307
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 307
 gaattcggca cgagggtttaa accctgcgtg gcaatccctg acgcaccgcc gtgatgccca 60
 gggaagacag ggcgacctgg aagtccaact acttccctaa gatcatccaa ctattggatg 120
 attatccgaa atgtttcatt gtgggagcag acaatgtggg ctccaagcag atgcagcaga 180
 tccgcacgtc ccttcgcggg aaggctgtgg tgcctgatgg caagaacacc atgatgcga 240
 aggccatccg agggcacctg gaaaacaacc cagctctgga gaaactgctg cctcatatcc 300
 ggggggaatgt gggctttgtg ttcaccaagg aggacctcac tgagatcagg gacatgttgc 360
 tggccaataa ggtgccagct gctgccgtgc tgggtgccatt gcccctatgt aagtcactgt 420
 gccagcccag aacactggtc tggggcccg 449

<210> 308
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 308
 gaattcggca cgagggttga ttatggcaag aagtccaagc tggagttctc catttaccca 60
 gcaccccagg ttccacagc tgtagttgag cctacaact ccatcctcac caccacacc 120
 accctggagc actctgattg tgccttcatt gtagacaatg aggccatcta tgacatctgt 180
 cgtagaaacc tcgatatcga gcgccccacc tacactaacc ttaaccgcct tattagccag 240
 attgtgtcct ccatcactgc ttccttgaga ttgtatggag ccttgaatgt tgacctgaca 300
 gaattccaga ccaacctggt gccctacccc cgcctccact tccctctggc cacatatgcc 360
 cctgtcatct ctgctgagaa agcctacat gaacagcttt ctgtagcaga gatcaccaat 420
 gcttgctttg agccagccaa ccagatggtg aaatgtgacc ctgcctatgg taaatacatg 480
 gcttgctgcc tgttgtaacc tgggtgacgtg gttcccaaag atgt 524

<210> 309
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 309
 gaattcggca cgagggttcc tcaatgagtg cctactttta tgtcctgcct gtggtgagca 60

```

caaatgttga gcacatcaat ccccatTTTT tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaagggaaga 240
gagatgcctt ttccctatcca gccttttttg aatccttcca tctagaggag atgtatctta 300
taatatactc aaaggcactc tgttgctaat agcagccttg atgagggtccc atatagtctca 360
ttggaagcag agctagtctt ggaaactgaa aatggttgac cagagtctgc ccattccctt 420
agctctgggt ccagctgtgg tctgggggtg aatggagtc gaccttgctt cacacagggc 480
ctgtctgttc tcattgtggc catccacatc ctggagctgc tcat 524

```

```

<210> 310
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 310
gaattcggga cgaggggaga ctacaaggat agggccagga gtaatggagt ccaaagagaa 60
acgagcagta aacagtctca gcatggaaaa tgccaaccaa gaaaatgaag aaaaggagca 120
agttgctaata aaaggggagc ccttgggcct ccctttggat gctgggtgaat actgtgtgcc 180
tagaggaaat cgtaggcggg tccgcgttag gcagcccatc ctgcagtata gatgggatat 240
gatgcatagg cttggagaac cacaggcaag gatgagagaa gagaatatgg aaaggattgg 300
ggaggaggtg agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg 360
ggcagtcagc actgaccccc ctccaccatga ccatcatgat gagttttgcc ttatgcctctg 420
aatcctgatg gtttccctaa agttattacg gaaacagacc cctgctttcg aatttacatg 480
ttcatgatgt gcccttgttg taaaccttta cctgtcactt gttt 524

```

```

<210> 311
<211> 523
<212> DNA
<213> Homo sapiens

```

```

<400> 311
gaattcggca cgaggcctcg tgcggtgcc cccgaggtat ggggggtcac tcgctgctcg 60
atgttccctc cgaagggtcg gacaaggctc cggagccctg tagctgccct cctaggagc 120
cccgggtctt cactggccga ggtgccacc ccgcagcatt ctgggagtg tagttttctt 180
ccttcagggtt cattcctggc tggccagtgc ccaagactgg cgagactacg attcccagac 240
gcccagcga gtcgcccgtc acgtggccgc aaggacgctg ggcgggtggg cgggggcccg 300
caggtgctcc gcagccgtct gtgccacca gagccggcgg gccgctaggt ccccgagac 360
cctgctatgg tgcgtgcggg cgcggtgggg gctcatctcc ccggtccgg cttggatata 420
ttcggggacc tgaagaagat gaacaagcgc cagctctatt accaggtttt aaacttcgcc 480
atgatcgtgt cttctgcact catgatattg aaaggcttga tcg 523

```

```

<210> 312
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 312
gaattcggca cgaggggtgaa ggtgtgtgtc agcttttgcg tcaactcgagc cctgggcgct 60
gcttgctaaa gagccgagca cgcgggtctg tcatcatgtc gcgttacggg cggtagcgag 120
gagaaaccaa ggtgtatgtt ggtaacctgg gaactggcgc tggcaaagga gagttagaaa 180
gggctttcag ttattatggt cctttaagaa ctgtatggat tgcgagaaat cctccaggat 240
ttgcctttgt ggaattcgaa gatcctagag atgcagaaga tgcagtacga ggactggatg 300
gaaagggtgat ttgtggctcc cgagtggagg ttgaaactat gacaggcatg cctcggagat 360
cacgttttga tagaccacct gcccgacgtc cctttgatcc aaatgataga tgctatgagt 420

```

gtggcgaaaa gggacattat gcttatgatt gtcacgtta cagccggcga agaagaagca 480
 ggtcacggtc tagatcacat tctcgatcca gaggaaggcg atac 524

<210> 313
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 313
 gaattcggca cgaggggtaa caccagaata tttggcaaag ggagaaaaaa aaagcagcga 60
 ggcttcgcct tccccctctc cctttttttt tctcctctt ccttcctcct ccagccgcg 120
 ccgaatcatg tcgatgagtc caaagcacac gactccgttc tcagtgtctg acatcttgag 180
 tccccctggag gaaagctaca agaaagtggg catggagggc ggccggcctcg gggctccgct 240
 ggccggcgta aggcagggcc aggcggcacc gccaacagcg gccatgcagc agcacgccgt 300
 ggggcaccac ggccgcgtca ccgccgccta ccacatgacg gcggcggggg tgccccagct 360
 ctgcactcc gccgtggggg gctactgcaa cggcaacctg ggcaacatga gcgagctgcc 420
 gccgtaccag gacacatga ggaacagcgc ctctggcccc ggatggtacg gcgccaaccc 480
 agaccgcgcg tcccccgcca gttctttttt ttcaggatca ggc 523

<210> 314
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 314
 gaattcggca cgagggaaaa ccagagatag agggaaagcc agagagtga ggagagccag 60
 ggagtgaac aagggtgca ggaaagcgcc cagctgagga tgatgtaccc aggaaagcca 120
 aaagaaaaac taataagggg ctgggtcatt acctcaagga gtataaagag gccatacatg 180
 atatgaattt cagcaatgag gacatgataa gagaatttga caatatggct aaggtgcagg 240
 atgagaagag aaaaagcaaa cagaaattgg gggcgttttt gtggatgcaa agaaatttac 300
 aggacccctt ctaccctaga ggtccaaggg aattcagggg tggctgcagg gccccacgaa 360
 gggacattga agacattcct tatgtgtagt gtccctggca ggcatttacc aggccatgtg 420
 ctttaacggt cggtaatact ttacttttag catccctcct gttgctagca gccttttgac 480
 ctatctgcaa tgcagtgttc tcagtaggaa atgttcatct gttac 525

<210> 315
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 315
 gaattcggca cgaggggggtg gtggagcgct gggcgccag gctccctggc tggccggttt 60
 gggcgctctg gccgtgaagg tgggacctcc tgttccgggc cgcaagtctt cctctccagc 120
 cgcccgccgt tcgtagcatg tccccagaa ctcggggagc gcaggcagga caggcttaga 180
 gaagacgcgg tccccagcgc ttggggccac gacgtccac ccgctcctc tgtcgctgga 240
 gaaccgcgg gccgagccac tgggagaagc aggcagagc cttccagggc ctccggcccc 300
 tggacccgag gaggatgagc tggctttttt ccctgaccaa gagcgcctcc tctccgc 358

<210> 316
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 316

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gaattcggca cgaggcgttc cttegcacac tgtgattttg ccctcctgcc cacgcagacc 60
tgcagcgggc aaagagctcc cgaggaagca cagcttgggt caggttcttg cctttcttaa 120
ttttaggga agctaccgga aggaggggaa caaggagttc tcttcgcag cccctttccc 180
cacgcccacc cccagtctcc agggaccctt gcctgcctcc taggctggaa gccatggtcc 240
cgaagtgtag ggcaagggtg cctcaggacc ttttgggtct cagcctccct cagccccag 300
gatctgggtt aggtggccgt cctcctgctc ctcatgggaa gatgtctcag agccttcag 360
acctcccctc cccaacccaa tgccaaagtg gacttgggag ctgcacaaag tcagcagga 420

```

```

<210> 317
<211> 518
<212> DNA
<213> Homo sapiens

```

```

<400> 317
gaattcggca cgagggtgc cgagggtgc ttttaaaggg cccgcgcgtt gccgccccct 60
cggcccgcga tgctgctatc cgtgcgcgtg ctgctcgccc tctcggcct gcccgctgcc 120
gagcctgccg tctacttcaa ggagcagttt ctggacggag acgggtggac ttcccgctgg 180
atcgaatcca aacacaagtc agattttggc aaattcgttc tcagttccgg caagttctac 240
ggtgacgagg agaaagataa aggtttgcag acaagccagg atgcacgctt ttatgctctg 300
tcggccagtt tcgagccttt cagcaacaaa ggccagacgc tgggtggtgca gttcacggtg 360
aaacatgagc agaacatcga ctgtgggggc ggctatgtga agctggttcc taatagtttg 420
gaccagacag acatgcacgg agactcagaa tacaacatca tgtttggtcc cgacatctgt 480
ggcctgcacc aaaaagggtc atgtcatctt caactaca 518

```

```

<210> 318
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(401)
<223> n = A,T,C or G

```

```

<400> 318
aacaccaagg tggacaagag agttgagtc aaatatggtc ccccatgccc atcatgccca 60
gcacctgagt tcttgggggg accatcagtc ttcctgttcc ccccaaaacc caaggacact 120
ctcatgatct cccggacccc tgaggtcacg tgcgtggtgg tggacgtgag ccaggaagac 180
cccaggttcc agttcaactg gtacgtggat ggctggtgag tgcataatgc caagacaaag 240
ccgcgggagg agcagttcaa cagcacgtac cgtgtggtca gcgtcctcac cgtcctgcac 300
caggactggc tgaacggcaa ggagtacaag tgcaaggctt ccaacaaagg cctcccgtcc 360
tccatcgaga aaacctntn caaagccaaa ggcagcccc g 401

```

```

<210> 319
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 319
accgtgtact attagccatg gtcaacccca ccgtgttctt cgacattgcc gtcgacggcg 60
agcccttggg ccgcgtctcc tttgagctgt ttgcagacaa ggtcccaaag acagcagaaa 120
attttcgtgc tctgagcact ggagagaaa gatttgggta taagggttcc tgctttcaca 180
gaattattcc agggtttatg tgtcagggtg gtgacttcac acgccataat ggcaactggtg 240

```

```

gcaagtccat ctatggggag aaatttgaag atgagaactt catcctaaag catacgggtc 300
ctgcatcttg tccatggcaa atgctggacc caacacaaat ggttcccagt ttttcatctg 360
cactgccaaag actgagtggg tggatggcaa gcatgtggtg t 401

```

```

<210> 320
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<400> 320
tagagtccca caaacccttg gcatgcctta atgtttgaga attccattct atttctcatt 60
aatctcttga aagcaaagat attttataaa tcttttttga ccagtgtttt agatggtagt 120
ggctgtggca gtgactttta attagccatc ctgaacccat cattttaaatt atttattttt 180
gctttcagaa attttgaaat aagtaaggga aaaaaccaa ttatttacag atacacataa 240
ccaacccaaa ataaaagcaa aatactaaat taggcacaca gaaagactaa aagtaaattc 300
actaggaaag acactcctca aagatagaat gtaaattttg tgaatccaga gtgctcaaac 360
cagaataacg cttgtcctta taccctaaag gacttgccaa gaaagataaa aagtatttta 420
ttatcccaga aagaatgcaa gggctctcat ttcagttggc ttataacacc a 471

```

```

<210> 321
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<400> 321
attactcaac agatttggac acaacggaaa gacaacagtt gatatttcta cttggtgtga 60
gcagtttgca acttttttgt cagagcaact ggacggggcc ccctgttgac ttacaccctc 120
aggacttttt gtcactgtgt ttgttccagc aattcagtga gggttaaagga ctggatgcat 180
ttgttctgag cctgctcact ctagatgggt aatcaatcta cagcctgacc tcgaagccta 240
tactactgtt attagcacgc attatcctag tgaatgtaag acataaactg acagctattc 300
agagcttgcc atgggtggact ttgagatgtg tgaatattca tcagcatttg cttgaggaac 360
gtcacctct gcttttttact cttgccgaaa actgtattga tcaagtgatg aaactacaga 420
atctgtttgt agatgattca ggtcgatatt tggctattca attccatctg g 471

```

```

<210> 322
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 322
tgaaggagca gttgccgcgc ttggcggcgg cccgagcagt tttcgctgct gctacggctg 60
ttgcatgag gcgaggctag ggaggacctc acttcccggg ggtgtaataa tgtaactga 120
ggcagctcta tccatatggg gatggggaag ccttggcatt gtcttttttc tgataacctt 180
tggacccttt gtaatatattt atttgacatt ttatatcctc tgctttgttg gtgggggttt 240
agtggttact ctctgttttg gaaaaacaaa ctacagagaag taactagaac agtgtgaaca 300
ctcatttctt cctccaacat cacctggggg tcttaagtgc ttagaagaaa tgaaacggga 360
agccaggact attaagattg atagaagatt gacgggtgcc aatataattg atgaacctct 420
ccagcaagtt atccagtttt ccttgaggga ttatgtccag tattggtatt atacactaag 480
cgatgatgaa tcttttcttc ttgaaattag gcgaactctt caaaacgcac tcattcagtt 540
tgctactagg tcaaaaagaaa tagactggca accttatttt actacacgca ttgtagatga 600
c 601

```

```

<210> 323
<211> 601

```

<212> DNA

<213> Homo sapiens

<400> 323

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gatgaggttag cagaggetca acgggcagag tttagccctg cccagttctc tggctctaag 60
aagatcaacc tgaaccaactt gttgaatttc acttttgaac cccgtggcca gacgggtcac 120
tttgaaggca gtggacatgg tagctgggga aagaggaaca agtggggaca taagcctttt 180
aacaaggaaac tcttttttaca ggccaactgc caatttggg tgtctgaaga ccaagactac 240
acagctcatt ttgctgatcc tgatacatta gttaactggg actttgtgga acaagtgcgc 300
at ttgtagcc atgaagtgcc atcttgccca atatgcctct atccacctac tgcagccaag 360
ataaaccgtt gtggacacat cttctgctgg gcatgcatcc tgcactatct ttcactgagt 420
gagaagacgt ggagtaaattg tcccatctgt tacagttctg tgcataagaa ggatctcaag 480
agtgttggtt ccacagagtc acatcagtat gttgttggtg ataccattac gatgcagctg 540
atgaagaagg agaaaggggg ggtggtggct ttgccc aaat ccaaattggat gaatgtagac 600
c 601

```

<210> 324

<211> 461

<212> DNA

<213> Homo sapiens

<400> 324

```

catcttcttc ctttcgcggg gtccctccgta gttctggcac gagccaggcg tactgacagg 60
tggaccagcg gactggtgga gatggcgacg ctctctctga ccgtgaattc aggagaccct 120
ccgctaggag ctttgctggc agtagaacac gtgaaagacg atgtcagcat ttccggtgaa 180
gaagggaag agaatattct tcatgtttct gaaaatgtga tattcacaga tgtgaattct 240
atacttcgct acttggttag agttgcaact acagctgggt tatatggctc taatctgatg 300
gaacatactg agattgatca cttggttgga gttcagtgct acaaaattat cttcatgtga 360
ttcctttact tctacaatta atgaactcaa tcattgcctg tctctgagaa catacttagt 420
tggaactcc ttgagtttag cagatttatg tgtttgggccc a 461

```

<210> 325

<211> 461

<212> DNA

<213> Homo sapiens

<400> 325

```

tcacttttga acccctgtgc cagacgggtc actttgaagg cagtggacat ggtagctggg 60
gaaagaggaa caagtgggga cataagcctt ttaacaagga actcttttta caggccaact 120
gccaatgtgt ggtgtctgaa gaccaagact acacagotca ttttgotgat cctgatacat 180
tagttaactg ggactttgtg gaacaagtgc gcattttagt ccatgaagtg ccatcttgcc 240
caatatgcct ctatccacct actgcagcca agataaccog ttgtggacac atcttctgct 300
gggcatgcac cctgcactat ctttcaactg gtgagaagac gtggagtaaa tgtcccatct 360
gttacagttc tgtgcataag aaggatctca agagtgttgt tgccacagag tcacatcagt 420
atgttgttgg tgataccatt acgatgcagc tgatgaagaa g 461

```

<210> 326

<211> 451

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(451)

<223> n = A,T,C or G

<400> 326

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ctgtggaggc cagttctgga gctattgcag cctcggttgc ccggccgggg acccgagccg 60
aaaagttatc gtcagaatgt cgggcaaaga ccgaattgaa atctttccct cgcgaaatggc 120
acagaccatc atgaangctc gtttaaaggg agcacagaca ggtcgaaacc tcctgaagaa 180
aaaatctgat gccttaactc ttcgatttcg acagatccta aagaagataa tagagactaa 240
aatgttgatg ggcgaagtga tgagagaagc tgccttttca ctagctgaag ccaagttcac 300
agcaggtgac ttcagcacta cagttatcca aaatgtcaat aaagcgcaag tgaagattcg 360
agcgaagaaa gataatgtag caggtgttac tttgccagta tttgaacatt accatgaagg 420
aactgacagt tatgaactga ctggttttagc c 451
```

<210> 327

<211> 601

<212> DNA

<213> Homo sapiens

<400> 327

```
gaggggaggc cagcgaagcc gagtaaaacc gccgcccggg agaagactga aggagcagtt 60
gccgccgttg gccggcgccc gagcagtttt cgctgctgct acggctgttg ccatgaggcg 120
aggctaggga ggacctcact tccccggggg gtaataatgt taactgaggc cagtctatcc 180
atatggggat ggggaagcct tggcattgtc ctttttctga taaccttttg accctttgta 240
atattttatt tgacatttta tatectctgc tttgtgggtg ggggttttagt gtttactctc 300
ctgttttgaa aaacaaactc agagaagtac ctagaacagt gtgaacactc atttcttcct 360
ccaacatcac ctgggggttc taagtgtcta gaagaaatga aacgggaagc caggactatt 420
aagattgata gaagattgac gggtgccaat ataattgatg aacctctcca gcaagttatc 480
cagttttcct tgagggatta tgtccagtat tggattata cactaagcga tgatgaatct 540
tttcttcttg aaattaggca gactcttcaa aacgcactca ttcagtttgc tactaggtca 600
a 601
```

<210> 328

<211> 601

<212> DNA

<213> Homo sapiens

<400> 328

```
ccggaatgat caccaagaca cacaaagtag accttgggct ccagagaag aaaaagaaga 60
agaaagtggg caaagaacca gagactcgat actcagtttt aaacaatgat gattactttg 120
ctgatgtttc tcttttaaga gctacatccc cctctaagag tgtggcccat gggcaggcac 180
ctgagatgcc tctagtgaag aaaaagaaga agaaaaagaa ggggtgtcagc accctttgcg 240
aggagcatgt agaacctgag accacgctgc ctgctagacg gacagagaag tcaccagcc 300
tcaggaagca ggtgtttggc cacttggagt tctcagtg ggaagaaa aataagaagt 360
cacctctagc catgtcccat gcctctggg gtaaaacctc ccagaccct agacagggtg 420
aggaggaaac cagagttggc aagaagctca aaaaacacaa gaaggaaaaa aagggggccc 480
aggaccccac agccttctcg gtccaggacc cttggttctg tgaggccagg gaggccaggg 540
atgttgggga cacttgctca gtggggaaga aggatgagga acaggcagcc ttggggcaga 600
a 601
```

<210> 329

<211> 501

<212> DNA

<213> Homo sapiens

<400> 329


```

agcagctttc gctccaagct gcctcttgta gacctcgctg gatcagaaag acagaagaaa 60
accaaggctg aaggggatcg tctaaaagag ggtattaata ttaaccgagg cctcctatgc 120
ttgggaaatg taatcagtcg tcttgagat gacaaaaagg gtggctttgt gccctacaga 180
gattccaagt tgactcgact gcttcaagat tctctaggag gtaatagcca tactcttatg 240
atagcctgtg tgagtcctgc tgactccaat cttagaggaa cattaaatac ccttcgctat 300
gctgacagag caagaaaaat caagaacaaa cctattgtta atattgatcc ccagacagct 360
gaacttaatc atctaaagca acaggtacaa cagctacaag tcttggtgct acaggcccat 420
ggaggtaccc tgccctggatc tataactgtg gaaccatcag agaacttaca atccctgatg 480
gagaagaatc agtccctggt a 501

```

```

<210> 330
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 330
cgcgaggcgc gcgccatgga acagcgggta gctgagtttc gggcggcgcg gaaacgggcg 60
ggtctggcgg ccacaccccc tgctgccagt caggcgcgac aaaccccgag agagaaggcg 120
gaagcagcag cgactctaaa ggcagcccca ggctggctaa agcgggttct ggtatggaaa 180
cctaggcccg cgagtgcctg ggcagccccc ggcctagtct aggaagcggc tcagcccccag 240
ggcagcacat cagagacacc atggaacaca gccattcctc tgccgtcgtg ctgggaccag 300
tctttcctga ccaatatcac cttcttgaag gttcttctct ggttggtcct gctgggactg 360
tttggtgaac tggaatttgg cctgcataat ttgtcctgtc cttgttctat tggatgtacg 420
tcgggacacg aggccttgaa gagaagaaag a 451

```

```

<210> 331
<211> 331
<212> DNA
<213> Homo sapiens

```

```

<400> 331
cgttggtcct gtgcgggtcac ttagccaaga tgcttgagga aaccagagacc caagaccaac 60
cgatggagga ggaggagggt gagacgttcg ctttcaggc agaaattgcc cagttgatgt 120
cattgatcat caatactttc tactcgaaca aagagatctt tctgagagag ctcatctcaa 180
attcatcaga tgcatctggac aaaatcccgt atgaaagctt ggacagaatc caataaatta 240
aaacttcttg ggaaaagaag cttgcattat taacccttta taccgaacca aaccaaagaa 300
tcgaaactt cttcacttat ttggtgggga a 331

```

```

<210> 332
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 332
tccttcttga tcctgaactg ggttaggtgc cgctgttgct gctcgtgttg aatctagaac 60
cgtagccaga catgggactg gaggacgagc aaaagatgct taccgaatcc ggagatcctg 120
aggaggagga agaggaagag gaggaattag tggatcccct aacaacagtg agagagcaat 180
gcgagcagtt ggagaaatgt gtaaaggccc gggagcggct agagctctgt gatgagcgtg 240
tatectctcg atcacatata gaagaggatt gcacggagga gctctttgac ttcttgcatg 300
cgagggacca ttgcgtggcc cacaactct ttaacaactt gaaataaatg tgtggactta 360
attcaccoca gtcttcatca tctgggcacac agaataattc c 401

```

```

<210> 333
<211> 331

```

<212> DNA

<213> Homo sapiens

<400> 333

gatccctgca	gaggcctcat	cccccgacag	cgagccagtc	ctagagaagg	atgacctcat	60
ggacatggat	gcctctcagc	agaattttatt	tgacaacaag	tttgatgaca	tctttggcag	120
ttcattcagc	agtgatccct	tcaattttcaa	cagtcaaaat	ggtgtgaaca	aggatgagaa	180
ggaccactta	attgagcgcg	tatacacaga	gatcagtga	ttgaaggcac	agctagaaaa	240
catgaagact	gagagccagc	gggtttgtgt	gcagctgaag	ggccacgtca	gcgagctgga	300
agcagatctg	gccgagcagc	agcacctgcg	g			331

<210> 334

<211> 551

<212> DNA

<213> Homo sapiens

<400> 334

agcgggactg	gctgggtcgg	ctgggctgct	ggtgcgagga	gccgcggggc	tgtgctcggc	60
ggccaagggg	acagcgcgtg	ggtggccgag	gatgctgcgg	ggcggtagct	ccggcgcccc	120
tagctggtga	ctgctgcgcc	gtgcctcaca	cagccgaggc	gggctcggcg	cacagtcgct	180
gctccgcgcg	cgcgcccgcc	ggcgcctccg	gtgctgacag	cgcgagagag	cgcggccctc	240
aggagcaagg	cgaatgtatg	acaacatgtc	cacaatggtg	tacataaagg	aagacaagtt	300
ggagaagctt	acacaggatg	aaattatttc	taagacaaag	caagtaattc	aggggctgga	360
agctttgaag	aatgagcaca	attccatttt	acaaagtttg	ctggagacac	tgaagtgttt	420
gaagaaaagat	gatgaaagta	atttggtgga	ggagaaatca	aacatgatcc	cggaagtcac	480
tggagatgtt	ggagctcggc	ctgagtgagg	cacaggttat	gatggctttg	tcaaatcacc	540
tgaatgcttg	t					551

<210> 335

<211> 501

<212> DNA

<213> Homo sapiens

<400> 335

caggcgcccg	agcgggactg	gctgggtcgg	ctgggctgct	ggtgcgagga	gccgcggggc	60
tgtgctcggc	ggccaagggg	acagcgcgtg	ggtggccgag	gatgctgcgg	ggcggtagct	120
ccggcgcccc	tagctggtga	ctgctgcgcc	gtgcctcaca	cagccgaggc	gggctcggcg	180
cacagtcgct	gctccgcgcg	cgcgcccgcc	ggcgcctccg	gtgctgacag	cgcgagagag	240
cgcggccctc	aggagcaagg	cgaatgtatg	acaacatgtc	cacaatggtg	tacataaagg	300
aagacaagtt	ggagaagctt	acacaggatg	aaattatttc	taagacaaag	caagtaattc	360
aggggctgga	agctttgaag	aatgagcaca	attccatttt	acaaagtttg	ctggagacac	420
tgaagtgttt	gaagaaaagat	gatgaaagta	atttggtgga	ggagaaatca	aacatgatcc	480
ggaagtcaact	ggagatgttg	g				501

<210> 336

<211> 521

<212> DNA

<213> Homo sapiens

<400> 336

cctcggcgcc	ggcggcggtg	cttacagcct	gagaagagcg	tctcggcccg	gagcggcgcc	60
ggccatcgag	acccacccaa	ggcgcgtccc	cctcggcctc	ccagcgtccc	caagccgcag	120
cggccgcgcc	ccttcagcta	gctcgcctgc	tcgctctgct	tcctctgctc	cggctgcgcc	180
atggcgttgg	cgttggcggc	gctggcggcg	gtcagagccg	cctcgggcag	ccggtaccag	240

cagttgcaga	atgaagaaga	gtctggagaa	cctgaacagg	ctgcaggtga	tgctcctcca	300
ccttacagca	gcatttctgc	agagagcgca	gcataattttg	actacaagga	tgagtctggg	360
tttccaaagc	ccccatctta	caatgtagct	acaacactgc	ccagttatga	tgaagcggag	420
aggaccaagg	ctgaagctac	tatccctttg	gttcctggga	gagatgagga	ttttgtgggt	480
cgggatgatt	ttgatgatgc	tgaccagctg	aggataggaa	a		521

<210> 337

<211> 521

<212> DNA

<213> Homo sapiens

<400> 337

aaaggaggaa	aatacacgga	agagaattgc	tgctcctgggt	gagtcacagag	agataactga	60
gggtcccaga	caaggatcaa	gagaacggga	ttggcctcca	gaggcagagg	ttccaaatgg	120
gagtgggctt	cctcctagaa	agactttctg	gaggagaccc	ccctactgtg	taacagagga	180
ggactttggg	attaagaaaa	gcattccagg	aagccgacag	tgtcagcaaa	cgtggagggtg	240
agatccttca	aagttagtgg	tgtggagggt	tccagaattt	tctgagcctg	aagggaaggt	300
tggagagcag	accctgccct	ttggaggctt	gacttagccc	tgagggcacc	ctgtagccag	360
ggtgggcaga	tgccaatatg	gtagagacga	agactgagta	gggagccagc	cacagtgcct	420
gtggtctcag	gcagggagtg	aagaccagag	tggagcaggc	tagaaacctg	ggaaggaagc	480
aggttcccca	gtataagccc	atgatgtgtg	aagaatgagc	c		521

<210> 338

<211> 581

<212> DNA

<213> Homo sapiens

<400> 338

atactgcttg	cttggagatg	tcctcggaga	ccattcttgc	tatgacaagg	cctgggagtt	60
gtcccggtag	cgcagtgtct	gtgctcagcg	ctccaaagcc	ctccttcctc	ttcggaacaa	120
ggagtttcaa	gagtgtgtag	agtgtcttga	acgctcgggt	aagattaatc	ccatgcagct	180
cggggtgtgg	ttttctctcg	gttgtgccta	tttggccttg	gaagactatc	aaggttcagc	240
aaaggcattt	cagcgctgtg	tgactctaga	acccgataat	gctgaagctt	ggaacaattt	300
gtcaacttcc	tatatccgat	taaaacaaaa	agtaaaagct	tttgaactt	tacaagaagc	360
tctcaagtgt	aactatgaac	actggcagat	ttgggaaaac	tacatcctca	ccagcactga	420
cgttggggaa	ttttcagaag	ccattaaagc	ttatcaccgg	ctcttggact	tacgtgacaa	480
atacaaagat	gttcagggtcc	ttaaaattct	agtcagggca	gtgattgatg	ggatgactga	540
tcgaagtgga	gatgttgcaa	ctggcctcaa	aggaaagctg	c		581

<210> 339

<211> 581

<212> DNA

<213> Homo sapiens

<400> 339

aagaagaaga	agctcgcggt	cgtgaagaag	cagagagggt	ccggcaggaa	cgagagaagc	60
atttccagag	agaagagcaa	gagcgcctgg	agagaaagaa	gcgacttgag	gagattatga	120
aaagaaccag	gagaacagaa	gctacagata	agaaaaccag	tgatcagaga	aacgggtgata	180
tagccaaggg	agctctcact	ggaggaacag	agggtgtctgc	acttccatgt	acaacaaacg	240
ctccgggaaa	tggaaagcca	gttggcagcc	cacatgtggt	tacctcacac	cagtcaaaag	300
aaaaaaaaaa	gcgtgatgga	atagctattg	gatcagggtta	caaaaaacaa	tttttaaaaa	360
taagctaaca	tctaagaaac	atcattttgc	ctatactgcc	tccccaaaaa	tcctgttttt	420
actcagtga	cacctaaagc	cactcagaaa	tgttctggat	tgctattttc	tccatccttt	480
agcaccttct	tattttgggg	ggagctctga	agccttgcaa	gaagtgggag	agaaaaggac	540

cagggtgtgac agaagggacg atttaagtta ttacaataaa c

581

<210> 340

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(571)

<223> n = A,T,C or G

<400> 340

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ggtggcaaat tcaagtcctg ttaaccccgt ggtgttcttt gatgtcagta ttggcgggtca 60
ggaagttggc cgcatagaaga tcgagctctt tgcagacgtt gtgcctaaga cggccgagaa 120
ctttaggcag ttctgcaccg gagaattcag gaaagatggg gttccaatag gatacaaagg 180
aagcaccttc cacagggtca taaaggattt catgattcag ggtggagatt ttgttaattg 240
agatgggtact ggagtcgcca gtatttaccg ggggccattt gcagatgaaa attttaaact 300
tagacactca gctccaggcc tgccttccat ggccaacagt ggtccaagta caaatggctg 360
tcagttcttt atcacctgct ctaagtgcga ttggctggat ggggaagcat tgggtgtttg 420
aaaaatcctc gatggacttc tagtgatgag aaagattgag aatgttccca caggcccaa 480
caataagccc aagctacctg tgggtgatctc cagtgtgggg agatgtagtc cagacaaaga 540
ctgaatcagt atacttgctc gacttcaagg n 571

```

<210> 341

<211> 581

<212> DNA

<213> Homo sapiens

<400> 341

```

taatgagacc aaagtttgca agggcaggac gagcccgtgc taacagagaa agtgtttgtt 60
cctcaatttg gtttttagact gtcttgtcct atgggggaga aaagatctgc cttggggaga 120
ggtgccaaat ttatagatct attaataaaa gaactggcag gcttacagtt cttgccaatg 180
aggaaacttg aatgagagaa gccaggctca acctgggcca acagactgga gcccatcacc 240
ctaacttcac cccgcttctc cttacccaac cgtcaaaggc taggcagcac ccaccagca 300
gcttccacct ggctgaagcc tgcacctgct tcagaccaag ggttagatgg aaatttggca 360
tgggaagaga gggtcacct gtgggcagga tagactctat ccaagaagga gaactgaaaa 420
atgaaaacct atgagacaag ggggtgatct gaagcaggca ggagaaagg ctggaggag 480
aggcactggg gaatttttcc tgggtgaatac tgaagttact agatgttttg tcttgcaaaa 540
ctcaagggaa aactctcaaa ctctaattgt tggcctattc t 581

```

<210> 342

<211> 451

<212> DNA

<213> Homo sapiens

<400> 342

```

gcagaccaga ctctgctcgt actcgtgcgc ctgcgttcgc ttttcctccg caaccatgct 60
tgacaaaccc gatatggctg agatcgagaa attcgataag tcgaaactga agaagacaga 120
gacgcaagag aaaaatccac tgccttccaa agaaacgatt gaacaggaga agcaagcagg 180
cgaatcgtaa tgaggcgtgc gccgccaaata tgcactgtac attccacaag cattgccttc 240
ttattttact tcttttagct gtttaacttt gtaagatgca aagaggttgg atcaagtta 300
aatgactgtg ctgccccttt cacatcaaag aactactgac aacgaagccg cgctgcctt 360
tcccatctgt ctatctatct ggctggcagg gaaggaaaga acttgcatg ttggtgaagg 420

```

aagaagtggg ggggtggaaga aatgggggtg g

451

<210> 343

<211> 601

<212> DNA

<213> Homo sapiens

<400> 343

```

tgacctcatg gacatggatg cctctcagca gaatttattt gacaacaagt ttgatgacat 60
ctttggcagt tcattcagca gtgatccctt caatttcaac agtcaaaatg gtgtgaacaa 120
ggatgagaag gaccacttaa ttgagcgact atacagagag atcagtggat tgaaggcaca 180
gctagaaaac atgaagactg agagccagcg ggttgtgctg cagctgaagg gccacgtcag 240
cgagctggaa gcagatctgg ccgagcagca gcacctgcgg cagcaggcgg ccgacgactg 300
tgaattcctg cgggcagaaac tggacgagct caggaggcag cgggaggaca ccgagaaggc 360
tcagcggagc ctgtctgaga tagaaaggaa agctcaagcc aatgaacagc gatatagcaa 420
gctaaaggag aagtacagcg agctggttca gaaccacgct gacctgctgc ggaagaatgc 480
agaggtgacc aaacaggtgt ccatggccag acaagcccag gtagatttgg aacgagagaa 540
aaaagagctg gagggattcg ttggagccgc tcagtgacct agggccagcg ggaagactca 600
a 601

```

<210> 344

<211> 571

<212> DNA

<213> Homo sapiens

<400> 344

```

gcgaccgggg gagcgagcac gtcgctccgc accgctcttc ctccagccgc tgagccgtcc 60
cttctcgcca tgtccagag caggcaccgc gccgaggccc cgccgctgga gcgagaggac 120
agtgggacct tcagtttggg gaagatgata acagctaagc cagggaacac accgattcag 180
gtattacacg aatacggcat gaagaccaag aacatcccag tttatgaatg tgaagatct 240
gatgtgcaaa tacacgtgcc cactttcacc ttccagagtaa ccgttgggtg cataacctgc 300
acaggtgaag gtacaagtaa gaagctggcg aaacatagag ctgcagaggc tgccataaac 360
attttgaaag ccaatgcaag tatttgcttt gcagttcctg accccttaac gcctgacctc 420
tccaagcaac caaagaacca gcttaatcct attggttcat tacaggaatt ggctattcat 480
catggctgga gacttcctga atataccctt tcccaggaag gaggacctgc tcataagaga 540
gaatatacta caatttgcag gctagagtca t 571

```

<210> 345

<211> 551

<212> DNA

<213> Homo sapiens

<400> 345

```

gacctggcgc tttgtgcggc tccaggcctc cgagtggact ccagaaagcc tgaaaagcta 60
tcatggcagc aaggcccaag ctccactatc ccaacggaag aggccggatg gagtccgtga 120
gatgggtttt agctgccgcc ggagtcgagt ttgatgaaga atttctggaa acaaaaagaac 180
agttgtacaa gttgcaggat ggtaaccacc tgctgttcca acaagtgcc atggttgaaa 240
ttgacgggat gaagttggta cagacccgaa gcattctcca ctacatagca gacaagcaca 300
atctcttttg caagaacctc aaggagagaa ccctgtactg tggccctctc cgagtgttgt 360
cacttgtcag cttactgatg ccttagctga ttgcaacct ctgtagcaca ccacatttac 420
tttatgtcct acatagttag tgagatcagg gaacaaaaac ccaagaagg caggaagacc 480
agttggaact tcagtagaga gagtctgagt aaaacaaaag aatagggatt cagatattga 540
atactatata t 551

```

<210> 346
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 346
 tatgggaaac tgctctttat ttagaccttt gggacaaaat taactttggt cacatattac 60
 ttaaaaaaaa atccagtttt acatatttct aaatagatag aactaaatga tcagagaatt 120
 tcttctgtaa aaattggcca aattttatca aaaatctaac atacgataca atccaaatta 180
 taaaaagact acttgggac ataatatcc aaatgtatga cagttataac tccatcttaa 240
 caagngtgaa aagtacttgc tctcatgttg ctttgggtcca aaagagtaga gctaactcag 300
 taacaggcaa ctaagtaccc aatcttttgc caaaattaat ttanattgtg actggcagca 360
 gaaatatcca taatgaacag ctctactata acaaagaata attaaagaat acttttcgtg 420
 aacatatcac agtatcaaat acatttttat aagagaaaaa tatgaaggaa atgataaaat 480
 agctatcaca aacaaaaaga a 501

<210> 347
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 347
 gcccgggaga agactgaagg agcagttgcc gccgttggcg gccggcccgag cagtttttcgc 60
 tgctgctacg gctgttgcca tgaggcgagg ctagggagga cctcacttcc ccgggggtgta 120
 ataattgttaa ctgaggccag tctatccata tggggatggg gaagccttgg cattgtcctt 180
 tttctgataa cctttggacc ctttctaata ttttatttga cattttatat cctctgcttt 240
 gtgggtgggg gtttagtggt tactctcctg tttggaaaaa caaactcaga gaagtaccta 300
 gaacagtgtg aacactcatt tcttctccta acatcacctg gggttcctaa gtgcttagaa 360
 gaaatgaaac ggggaagccag gactattaag attgatagaa gattgacggg tgccaatata 420
 attgatgaac ctctocagca agttatccag ttttcttga gggattatgt ccagtattgg 480
 tattatacac taagcgatga tgaatctttt cttcttgaaa ttaggcagac tcttcaaaac 540
 gcactcattc agtttgctac taggtcaaaa gaaatagact ggcaacctta ttttactacc 600
 cgcattgtag atgactttgg c 621

<210> 348
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 348
 cggcgggcgg cggcgggcga tggcgggcgg ggaggccggg ggcgacgacg cccgctgcgt 60
 ggggctgagc gccgagcggg cacaggcgct gctggccgac gtggacacgc tgctgttcga 120
 ctgcgacggc gtgctgtggc gccgggagac cggcgtgcct ggcgcgcccg aggcctgcgt 180
 ggcgctgcga gcccgggcga agcgccctgg cttcatcacc aacaacagca gcaagaccgg 240
 cgctgcctac gccgagaagc tgcggcgccct gggttcggc ggcccccgcg ggccccggcg 300
 cagcctggag gtctctggca cggcctactg caccgcgctc tacctgcgcc agcgctggc 360
 cggcgccccc gcgcaccaagg cctactgct gccgagccca gccctggccg cggagctgga 420
 gccgtggggc tgcgcagcgt gggcggtggg cccgaccact gcaggcgag ggtcccgggc 480
 actggctgca cggccgttgg agccgactgc g 511

<210> 349
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 349
 gctcaggcgc ctgcggctgg gtgagcgcac gcgaggcggc gaggcggcag cgtgtttcta 60
 ggtcgtggcg tcgggcttcc ggagcttttg cggcagctag gggaggatgg cggagtcttc 120
 ggataagctc tatcgagtcg agtacgccaa gaggcggcgc gcctcttgca agaaatgcag 180
 cgagagcatc cccaaggact cgctccggat ggccatcatg gtgcagtcgc ccatgtttga 240
 tggaaaagtc ccacactggt accacttctc ctgcttctgg aagggtgggc actccatccg 300
 gcaccctgac gttgaggtgg atgggttctc tgagcttcgg tgggatgacc agcagaaagt 360
 caagaagaca gcggaagctg gaggagtgc aggcaaaggc caggatggaa ttggtagcaa 420
 ggagagaag actctgggtg actttgcagc agagtatgcc aagtccaaca gaagtacgtg 480
 caagggggtg tatggagaag aatagaaaaa gggccagggtg c 521

<210> 350
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 350
 gccggcgggc ggcgatggcg gcggcggagg ccggtggcga cgacgccgcg tgcgtgcggc 60
 tgagcggcga gcgggcacag gcgctgctgg ccgacgtgga cagctgctg ttcgactgcg 120
 acggcgtgct gtggcgcggg gagaccgcg tcgctggcgc gcccgaggcc ctgcgggcgc 180
 tgcgagcccg cggcaagcgc ctgggcttca tcaccaacaa cagcagcaag acccgcgctg 240
 cctacgccga gaagctgcgg cgctgggct tcggcggccc cgcggggccc ggcgccagcc 300
 tggaggtctt cggcacggcc tactgcacc cgctctacct gcgccagcgc ctggccggcg 360
 ccccgcgcc caaggccctac gtgctgggca gccagccct ggccgcggag ctggagccgt 420
 gggcgctgcc agcgtgggcy tggggcccga c 451

<210> 351
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 351
 agagagagag agagagagag agagagagag agagagacct cgtgccgaat tcggcacgag 60
 gcctcgtgcc ggaaacttag tgatggacaa gttggtggtt tcataaatta tcgagatagc 120
 aagttaacac gaattctcca gaattccttg ggaggaaatg caaagacacg tattatctgc 180
 acaattactc cagtatcttt tgatgaaaca ctactgctc tccagtttgc cagtactgct 240
 aaatatatga agaatactcc ttatgttaat gaggtatcaa ctgatgaagc tctcctgaaa 300
 aggtatagaa aagaaataat ggatcttaaa aaacaattag aggaggtttc tttagagacg 360
 cgggctcagg caatggaaaa agaccaattg gccactttt ggaagaaaaa gatttgcttc 420
 agaaagtaca gaatgagaaa attgaaaact taacacggat gctggtgacc tcttcttccc 480
 tcacgttgca ccaggaatta aaggctaaaa gaaaacgaag agttacttgg tgccttgcaa 540
 aattaccaa tgaagaactc aacttttcag atcattttat t 581

<210> 352
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 352

```

aaaggcgatg aggtggatgg agtggatgaa gtggcggaaga agaaatctaa aaaagaaaaa 60
gacaaggata gtaagcttga aaaagcccta aaggctcaga acgacctgat ctggaacatc 120
aaggacgagc taaagaaagt gtgttcaact aatgacctga aggagctact catcttcaac 180
aagcagcaag tgccttctgg ggagtcggcg atcttggacc gagtagctga tggcatggtg 240
ttcgggtgcc tccttcctcg cgaggaatgc tcgggtcagc tggctcttcaa gagcgatgcc 300
tattactgca ctggggacgt cactgcctgg accaagtgtg tggtaagac acagacaccc 360
aaccggaagg agtgggtaac cccaaaggaa ttccgagaaa tctcttacct caagaaattg 420
aaggttaaaa agcaggaccg tatattcccc ccagaaccag c 461

```

<210> 353

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(491)

<223> n = A,T,C or G

<400> 353

```

atggcggcgg cggaggccgg tggcgacgac gcccgctgcg tgcggctgag cgccgagcgg 60
gcacaggcgc tgctggccga cgtggacacg ctgctgttcg actgcgacgg cgtgctgtgg 120
cgcggggaga ccgccgtgcc tggcgcgccc gaggcctgc gggcgctgcg agcccgcgcc 180
aagcgcttgg gcttcatcac caacaacagc agcaagaccc gcgctgccta cgccgagaag 240
ctgcggcgcc tgggcttcgg cgcccccgcg gggccccggc ccagcctgga ggtcttcggc 300
acggcctact gcaccgcgct ctacctgcgc cagcgcttgg ccggcgcccc cgcgcccaag 360
gcctacgtgc tgggcaaccc agccctggcc gcgganctgg agccgtgggc gtcgccagcg 420
tgggcgtggg gcccgaccac tgcaagggca gggtcccggc gactggctga cgccccgctg 480
gaaccgact g 491

```

<210> 354

<211> 401

<212> DNA

<213> Homo sapiens

<400> 354

```

ggcgtcccg tgtggctgtg ccgttgggtcc tgtgcggtca cttagccaag atgcoctgagg 60
aaaccagac ccaagaccaa ccgatggagg aggaggagg tgagacgttc gccttttcagg 120
cagaaattgc ccagttgatg tcattgatca tcaatacttt ctactcgaac aaagagatct 180
ttctgagaga gctcatttca aattcatcag atgcattgga caaaatccgg tatgaaagct 240
tgacagatcc cagtaaatta gactctggga aagagctgca tattaacctt ataccgaaca 300
aacaagatcg aactctcact attgtggata ctggaattgg aatgaccaag gctgacttga 360
tcaataacct tggtaactat gccaaagtctg ggaccaaaagc g 401

```

<210> 355

<211> 451

<212> DNA

<213> Homo sapiens

<400> 355

```

tcttcagcgc atcagaagta tccagaatgt tcttgaaagc tcaggggctg tggaaactgt 60
tccagcattt caagaaatta cttctatgaa agaacgatgc aacaagcttc ttcagaaagt 120
tcagaaaaat aaagaattgg tgcagactga aatccaagaa agacattcct tcacaaaaga 180

```



```

gataattgct ttgaagaatt tctttcaaca gaccacaact tcattccaaa atatggcatt 240
ccaggatcac ccagaaaagt cagaacaatt tgaggagctt caaagcatcc ttaagaaagg 300
gaaactaact tttgagaata ttatggaaaa actgogaatc aagtattccg aaatgtacac 360
catagtccct gcagagattg aatcccaggt ggaagaatgc agaaaagctt tagaagacat 420
agatgagaag attagccaat gaagtcttaa a                               451

```

<210> 356

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(441)

<223> n = A,T,C or G

<400> 356

```

gtcgcgcac cggcggccca tgaacgcctt catggtgtgg gcaaaggacg agcgcaagcg 60
gctggtcag cagaaccggg acctgcacaa cgggtgtctc agcaagatgc tgggcaaacg 120
gtggaaggag ctgaacgcgg cggagaagcg gcccttcgtg gaggaagccg aacggctgcg 180
cgtgcagcac ttgcgcgacc accccaacta caagtaccgg ccgcgccgca agaagcaggc 240
gcgcaaggcc cggcggctgg agcccggctc tgcctccggg attagcgccc ccgcagccac 300
cgccgacctt tcccgcggcg tctggtcgn tgcgccttc cgcgagctgc cccgctgggc 360
gccgagttca cggctggggc tgccaccccg agcgtcgctc tgacggctga cccgggagct 420
gcttttcac gccgcgcgc a                               441

```

<210> 357

<211> 451

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(451)

<223> n = A,T,C or G

<400> 357

```

gcggcggcgg aggcgggtgg cgacgacgcc cgctgcgtgc ggctgagcgc cgagcgggca 60
caggcgctgc tggccgacgt ggacacgctg ctgttcgact gcgacggcgt gctgtggcgc 120
ggggagaccg ccgtgcctgg cgcgcgccgag gccctgcggg cgctgcgagc ccgcggcaag 180
cgctgggct tcatcaccaa caacagcagc aagaccgcg ctgcctacgc cgagaagctg 240
cggcgccctg gcttcggcgg ccccgccggg cccggcgcca gcctggaggt cttcggcacg 300
gcctaactga ccgcgtcta cctgcgccag cgcctggccg gcgccccgc gcccaagcct 360
acgtgctggg cagcccagcc ctggccggcg anctggaagc cgtgggcgtc gccagcgtgg 420
gcgtggggcc cgaaccactt gcagggcgag g                               451

```

<210> 358

<211> 571

<212> DNA

<213> Homo sapiens

<400> 358

```

gcggcgatgg cggcggcgga ggccgggtgg gacgacgcc gctgcgtgcg gctgagcgcc 60
gagcgggcac aggcgctgct ggccgacgtg gacacgctgc tgttcgactg cgacggcgtg 120

```

```

ctgtggcgcg gggagaccgc cgtgcctggc ggcgccgagg ccctgcgggc gctgcgagcc 180
cgcggaagc gcctgggctt catcaccaac aacagcagca agaccgcgc tgccctacgc 240
gagaagctgc ggcgcctggg cttcggcggc ccgcggggc ccggcgccag cctggaggtc 300
ttcggcacgg cctactgcac cgcgctctac ctgcgccagc gcctggccgg cgcccccg 360
cccaagccta cgtgctgggc agccagccc tggccgcgga gctggaggcc gtgggctgc 420
ccagcgtggg cgtggggccc gaccactgca gggcgagggt ccgcgcgact ggctgcacgc 480
gcccgtggag ccgcagctgc gcgcggtggg ggtgggcttt gaccgcgact tagctacatg 540
aagctcacca agcccttgcc ctacttgaag a 571

```

<210> 359

<211> 511

<212> DNA

<213> Homo sapiens

<400> 359

```

cgctgctggt atggccgcct ccttgaggta gtatccgcac atggaattct agggccgcag 60
gtgtatttac ggtaactgtc gccactagat ttcagcgcc ttggactctc ctgttttcac 120
tttcttttgt tgactcccggt gtggccctcg tgggagcctg ttttggtgc agcggtgtct 180
ggggtgatgt ggaccccgga gctggcaatt ctgaggggat tccccactga ggctgagcgg 240
cagcaatgga aacaggaggg ggtgctcggt tcagagagtg gatctttcct acaattgctg 300
ctggaaggga actatgaagc catattctta aattcaatga ctcaaaatat ttttaattca 360
acaacaaccg ctgaagaaaa gattgatagc tacctggaga agcaggtagt aacattcctg 420
gattactcaa cagatttgga cacaacggaa agacaacagt tgatatttct acttggtgtg 480
agcagtttgc aactttttgt tcaaagcaac t 511

```

<210> 360

<211> 481

<212> DNA

<213> Homo sapiens

<400> 360

```

gcgttctcgg ggagctgctg ccgtagctgc gcgcgcgctt accaccgct tcgggtgtag 60
aatttgaat ccctgcgcgc cgttaacaat gaagcagagt tcgaacgtgc cggttttct 120
cagcaagctg tggacgcttg tggaggaaac ccacactaac gattcatca cctggagcca 180
gaatggccaa agttttctgg tcttgatga gcaacgattt gcaaaagaaa ttcttcccaa 240
atatttcaag cacaataata tggcaagctt tgtgaggcaa ctgaatatgt atggtttccg 300
taaagtagta catatcgact ctggaattgt aaagcaagaa agagatggtc ctgtagaatt 360
tcagcatcct tacttcaaac aaggacagga tgacttggtg gagaacatta aaaggaaggt 420
ttcatcttca aaaccagaag aaaataaaat tcgtcaggaa gatttaacaa aaattataag 480
t 481

```

<210> 361

<211> 551

<212> DNA

<213> Homo sapiens

<400> 361

```

cgtagaggaa gacactgtgg aggccagttc tggagctatt gcagcctcgg ttgcccgcc 60
ggggaccgaa gccgaaaagt tatcgtcaga atgtcgggca aagaccgaat tgaaatcttt 120
ccctgcgcga ttgacacgaa catcatgaag gctcgtttta agggagcaca gacaggtcga 180
aacctcctga agaaaaaatc tgatgcctta actcttcgat ttcgacagat cctaaagaag 240
ataatagaga ctaaaatggt gatgggcgaa gtgatgagag aagctgcctt ttactagct 300
gaagccaagt tcacagcagg tgacttcagc actacagtta tccaaaatgt caataaagcg 360
caagtgaaga ttcgagcgaa gaaagataat gtagcaggtg ttactttgcc agtatttgaa 420

```

```

cattaccatg aaggaactga cagttatgaa ctgactgggt tagccagagg tggggaacag 480
ttggctaaat taaagaggaa ttatgcccaa agcagtggaa ctactggtgg aactagcttc 540
tcttgacagac t                                     551

```

```

<210> 362
<211> 481
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

```

```

<400> 362
gggttacatt ttggattaata cctgtttccc gggttatgtgt aggggaacagc aaagngatgc 60
acnaacttttg aacatttcgtt atgggggaaaa catccttttaa cttcgggggtc gtctgccaaa 120
gcagggtctg ggagggtcca tgcagttccc gntgggtgtgg agggaaatgc cctggtctgg 180
cctccgagcc cccaggtcca cctctcccc tccccctatt tgtaanaata gctacacact 240
aacatttttg gaaggagagg cacataactt tttttaacat ttggttaacta gggttatgggc 300
tctacattgt cagctacttg ggatatatat ttaattttct taaattcccg ttaaactcta 360
ttttatgggt ttgatttcag attgcaaaaca tgtaaaacct gcatagcagc gagttctcgg 420
ttttgcggtt tcttttagttc tttactgtca ctgtcatgta atcagctaata tctcttgtgg 480
a                                     481

```

```

<210> 363
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 363
ggaaccagga cctcggcggt gcctagcgag ttatggcgac gaaggccgtg tgcgtgctga 60
aggcgacgg cccagtgagc ggcacatca atttcgagca gaaggaaagt aatggaccag 120
tgaagggtgt gggaagcatt aaaggactga ctgaaggcct gcatggattc catgttcatt 180
agtttgagga taatacagca ggctgtacca gtgcagggtc tcaactttaat cctctatcca 240
gaaaacacgg tgggccaaag gatgaagaga ggcattgttg agacttgggc aatgtgactg 300
ctgacaaaga tgggtgtggc gatgtgtcta ttgaagattc tgtgatctca ctctcaggag 360
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<210> 364
<211> 531
<212> DNA
<213> Homo sapiens

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<400> 364
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531

<210> 365

<211> 4834

<212> DNA

<213> Homo sapiens

<400> 365

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<210> 366

<211> 818

<212> PRT

<213> Homo sapiens

<400> 366

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Met Cys Cys Pro Ser Arg Ser Ser Met Leu Thr Gly Lys Tyr Val His
                        35                40                45
Asn His Asn Val Tyr Thr Asn Asn Glu Asn Cys Ser Ser Pro Ser Trp
                        50                55                60
Gln Ala Met His Glu Pro Arg Thr Phe Ala Val Tyr Leu Asn Asn Thr
                        65                70                75                80
Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr Leu Asn Glu Tyr Asn Gly

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Ser	Arg	Phe	Tyr	Asn	Tyr	Thr	Val	Cys	Arg	Asn	Gly	Ile	Lys	Glu	Lys
		115					120					125			
His	Gly	Phe	Asp	Tyr	Ala	Lys	Asp	Tyr	Phe	Thr	Asp	Leu	Ile	Thr	Asn
	130					135					140				
Glu	Ser	Ile	Asn	Tyr	Phe	Lys	Met	Ser	Lys	Arg	Met	Tyr	Pro	His	Arg
145					150					155					160
Pro	Val	Met	Met	Val	Ile	Ser	His	Ala	Ala	Pro	His	Gly	Pro	Glu	Asp
				165					170					175	
Ser	Ala	Pro	Gln	Phe	Ser	Lys	Leu	Tyr	Pro	Asn	Ala	Ser	Gln	His	Ile
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Thr	Pro	Ser	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met
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Glu	Arg	Leu	Tyr	Asn	Met	Leu	Val	Glu	Thr	Gly	Glu	Leu	Glu	Asn	Thr
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Tyr	Ile	Ile	Tyr	Thr	Ala	Asp	His	Gly	Tyr	His	Ile	Gly	Gln	Phe	Gly
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Leu	Val	Lys	Gly	Lys	Ser	Met	Pro	Tyr	Asp	Phe	Asp	Ile	Arg	Val	Pro
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Phe	Phe	Ile	Arg	Gly	Pro	Ser	Val	Glu	Pro	Gly	Ser	Ile	Val	Pro	Gln
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Ile	Val	Leu	Asn	Ile	Asp	Leu	Ala	Pro	Thr	Ile	Leu	Asp	Ile	Ala	Gly
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Leu	Asp	Thr	Pro	Pro	Asp	Val	Asp	Gly	Lys	Ser	Val	Leu	Lys	Leu	Leu
				325					330					335	
Asp	Pro	Glu	Lys	Pro	Gly	Asn	Arg	Phe	Arg	Thr	Asn	Lys	Lys	Ala	Lys
			340					345					350		
Ile	Trp	Arg	Asp	Thr	Phe	Leu	Val	Glu	Arg	Gly	Lys	Phe	Leu	Arg	Lys
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Lys	Glu	Glu	Ser	Ser	Lys	Asn	Ile	Gln	Gln	Ser	Asn	His	Leu	Pro	Lys
	370					375					380				
Tyr	Glu	Arg	Val	Lys	Glu	Leu	Cys	Gln	Gln	Ala	Arg	Tyr	Gln	Thr	Ala
385					390					395					400
Cys	Glu	Gln	Pro	Gly	Gln	Lys	Trp	Gln	Cys	Ile	Glu	Asp	Thr	Ser	Gly
				405					410					415	
Lys	Leu	Arg	Ile	His	Lys	Cys	Lys	Gly	Pro	Ser	Asp	Leu	Leu	Thr	Val
			420					425					430		
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	450					455					460				
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465					470					475					480
Lys	Pro	Arg	Phe	Val	His	Thr	Arg	Gln	Thr	Arg	Ser	Leu	Ser	Val	Glu
				485					490					495	
Phe	Glu	Gly	Glu	Ile	Tyr	Asp	Ile	Asn	Leu	Glu	Glu	Glu	Glu	Glu	Leu
			500					505					510		
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Val Thr His Lys Cys Phe Ile Leu Pro Asn Asp Ser Ile His Cys Glu		
565	570	575
Arg Glu Leu Tyr Gln Ser Ala Arg Ala Trp Lys Asp His Lys Ala Tyr		
580	585	590
Ile Asp Lys Glu Ile Glu Ala Leu Gln Asp Lys Ile Lys Asn Leu Arg		
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Glu Val Arg Gly His Leu Lys Arg Arg Lys Pro Glu Glu Cys Ser Cys		
610	615	620
Ser Lys Gln Ser Tyr Tyr Asn Lys Glu Lys Gly Val Lys Lys Gln Glu		
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Lys Leu Lys Ser His Leu His Pro Phe Lys Glu Ala Ala Gln Glu Val		
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Asp Ser Lys Leu Gln Leu Phe Lys Glu Asn Asn Arg Arg Arg Lys Lys		
660	665	670
Glu Arg Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu		
675	680	685
Pro Gly Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala		
690	695	700
Pro Phe Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn		
705	710	715
Asn Thr Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu		
725	730	735
Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr		
740	745	750
Asp Pro Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile		
755	760	765
Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly		
770	775	780
Tyr Lys Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys		
785	790	795
Asp Gly Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Asp Gly Trp		
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<210> 367

<211> 361

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(361)

<223> n = A,T,C or G

<400> 367

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gctggcggct tccaacanat aaacttttgg acaaagnac aanatatttt tgggcattca 180

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<210> 368

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(558)

<223> n = A,T,C or G

<400> 368

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ctgtgccata ccagttaaac aggctgattc tggagtttct gaggaaaagc agctttacaa 180
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cacatatgat ggccgagg 558

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<210> 369

<211> 1021

<212> DNA

<213> Homo sapiens

<400> 369

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gtccagtcag aaatgagtaa aaacaagatg taagaaacat taaaacaggg ggcataatggt 360
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t 1021

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<210> 370

<211> 204

<212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(204)
 <223> n = A,T,C or G

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 acgtgataac atggtttttg taacaataaa tgtaggatat ttcttggcac atgcaaataa 180
 acctaatcat tgtttcttta aaaa 204

<210> 371
 <211> 628
 <212> DNA
 <213> Homo sapiens

<400> 371
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<210> 372
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 372
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 gcaggtccta agcaaaaggg acaaggaaga agttgcctat gaagaaaggg cctgtgaagg 240
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<210> 373
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(283)

<223> n = A,T,C or G

<400> 373

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gatgaaagat caggcacaaa tcacattttc ccccttaata acaaaataca aatccaataa 120
ttttagaaaa tcagttttta gtgaccana tgcctggaga aaagctgccg ggatttttct 180
ggtctatcgc agaattttct acatcaatga gaaggatgct gcatatcttg gctgtattat 240
ttcctaccgn gagaaaagaa acttaataata tggaacatgc ttt 283

```

<210> 374

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(529)

<223> n = A,T,C or G

<400> 374

```

tccagngtgg tggaattccg cgcgcggggc gctgctgctg gcgctgctgc tggctcgggc 60
tggactcagg aagccggagt cgcaggaggc ggcgccctta tcaggaccat gcggccgacg 120
ggtcatcacg tcgcgcacgc tgggtggaga ggacgccgaa ctcgggcggt ggccgtggca 180
ggggagcccg cgctgtggg attccacgt atgcggagt agcctgctca gccaccgctg 240
ggcactcacg gcggcgcaact gctttgaaac tgacctagt gatccctccg ggtggatggt 300
ccagtttggc cagctgactt ccatgccatc cttctggagc ctgcaggcct actacaccg 360
ttacttcgta tcgaatatct atctgagccc tcgctacctg gggaattcac cctatgacat 420
tgccttggtg aagctgtctg cacctgtcac ctacactaaa cacatccagc ccattctgtct 480
ccaggccttc acatttgagt ttgagaaccg gacagactgc tgggtgact 529

```

<210> 375

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(519)

<223> n = A,T,C or G

<400> 375

```

tttgaattta naccaagaac ttctcaataa aagaaaatca tgaatgctcc acaatttcaa 60
cataccacaa gagaagttaa ttcttaaca ttgtgttcta tgattatttg taagaccttc 120
accaagtctt gatattttt aaagacatag ttcaaaattg cttttgaaaa tctgtattct 180
tgaaaatata cttgttgtgt attaggtttt taaataccag cttaaaggatt acctcactga 240
gtcatcagta cctcctatt cagctcccca agatgatgtg tttttgctta ccctaagaga 300
ggttttcttc ttatttttag ataattcaag tgcttagata aattatgttt tctttaagt 360
tttatggtaa actcttttaa agaaaattta atattgtata gctgaatctt tttggtaact 420
ttaaatcttt atcatagact ctgtacatat gttcaaatta gctgcttgcc tgatgtgtgt 480
atcatcgggtg ggatgacaga acaaacatat ttatgatca 519

```

<210> 376

<211> 171

<212> DNA
<213> Homo sapiens

<400> 376
tcaagatttta gccaaaggctg tggcaaagggt gtaacttgta aacttgagtt ggagtactat 60
atttacaaat aaaattggca ccatgtgccat tctgtacata ttactgttgc atttactttt 120
aataaagctt gtggccctt ttactttttt atagcttaaa aaaaaaaaaa a 171

<210> 377
<211> 270
<212> DNA
<213> Homo sapiens

<400> 377
ccagtgtggt ggaattaatc aggcctccca aatttagcag gtgctgggga ggaccctagg 60
gagtggttta tgggggctag ctggtgaaac tgccctttcc tttctgttct atgagtgtga 120
tggtgtttga gaaaatgtgg ggctatggtt caggcgact tcacatgtgc aaagatggag 180
aaagcactca cctacacgtt taggtcaga atattgattg aaacattttg aatgatcaaa 240
aataaaatgt tatttttaaa gtttcaaaaa 270

<210> 378
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(416)
<223> n = A,T,C or G

<400> 378
ccagtgtggt ggaattcgcc actgctaggg tttacaggtc atccctggat taaataagtg 60
atattgtggt ttttttttct ttgacacaaa gtaaaattat aattaatatt gaataaagta 120
aaaatgaact ccagtgnngn ggaattcgcc actcaggaaa tattagttgc atgaacgaag 180
gctgcatttt catcanaaca acatgcagtt caacccttcc atgtttcaat gaggttcan 240
atncccanag ggctatgcta tcatcctgga gccactctg ctaacaatta gcanaacgga 300
agccttaatt tccanattct agtgaacttg atgagtcaan actattgcaa ttggaaatct 360
gttctcctct gctgctgcat tccctgctta atactcaagc canaaaccag gaaggt 416

<210> 379
<211> 576
<212> DNA
<213> Homo sapiens

<400> 379
ttcctatgat cattaaactc attctcaggg ttaagaaagg aatgtaaatt tctgcctcaa 60
tttgacttcc atcaataagt ttttgaagag tgcagatttt tagtcaggtc ttaaaaataa 120
actcaciaat ctggatgcat ttctaaattc tgcaaatggt tccctggggtg acttaacaag 180
gaataatccc acaatatacc tagctacctc atacatggag ctggggetca acccactgtt 240
tttaaggatt tgcgcttact tgtggctgag gaaaaataag tagttcgagg aagtagtttt 300
taaatgtgag cttatagata gaaacagaat atcaacttaa ttatgaaatt gttagaacct 360
gttctcttgt atctgaatct gattgcaatt actattgtac tgatagactc cagccattgc 420
aagtctcaga tatcttagct gtgtagtgat tcttgaaatt ctttttaaga aaaattgagt 480
agaaagaaat aaaccctttg taaatgaggc ttggcttttg tgaaagatca tccgcaggct 540

atgttataaag gatttttagct cactaaaagt gtaata

576

<210> 380

<211> 347

<212> DNA

<213> Homo sapiens

<400> 380

ccagtgtggt	ggaattcggg	gagaaggaag	cctggggccc	agccgaggaa	gcgaaaaacc	60
aaacaagcag	ttcccattgt	ggaaccccaa	gaacctgaga	tcaaactaaa	atatgccacc	120
cagccactgg	ataaaaactga	tgccaagaac	aagtcttttt	acccttacat	ccatgtagta	180
aataagtgtg	aacttgagc	cgtttgtaca	atcatcaatg	ctgaggaaga	agaacagacc	240
aaattagtga	ggggcaggaa	gggtcagagg	tcaactgacc	ctccacctag	cagcactgaa	300
agcaaggcgc	tcccggcctc	gtccttttat	ctgcagggac	ctgttgt		347

<210> 381

<211> 258

<212> DNA

<213> Homo sapiens

<400> 381

gacaagctcc	tggctcttgag	atgtcttctc	gttaaggaga	tgggcctttt	ggaggtaaag	60
gataaaatga	atgagttctg	tcatgattca	ctattctaga	acttgcatga	cctttactgt	120
gttagctctt	tgaatgttct	tgaaatttta	gactttcttt	gtaaacaaat	gatatgtcct	180
tatcattgta	taaaagctgt	tatgtgcaac	agtgtggaga	ttccttgtct	gatttaataa	240
aataacttaa	cactgaaa					258

<210> 382

<211> 580

<212> DNA

<213> Homo sapiens

<400> 382

gccgtaggga	gtacctgctg	cccagctga	ctgtggcccc	ctccgtgac	catccatctc	60
caggagcaaa	gacagagacg	caggaatgga	aagcggagtt	cctaacagga	tgaaagttcc	120
cccatcagtt	ccccagtac	ctccaagcaa	gtagctttcc	acatttgtca	cagaaatcag	180
aggagagatg	gtgttgggag	ccttttggag	aacgccagtc	tcccaggccc	cctgcatcta	240
tcgagtttgc	aatgtcacaa	cctctctgat	cttgtgtctca	gcatgattct	ttaatagaag	300
ttttattttt	tctgtgactc	tgctaatacat	gtgggtgagc	cagtggaaca	gcgggagacc	360
tgtgctagtt	ttacagattg	cctcctaattg	acgcggctca	aaaggaaacc	aagtggtcag	420
gagttgtttc	tgacccactg	atctctacta	ccacaaggaa	aatagtttag	gagaaaccag	480
cttttactgt	ttttgaaaaa	ttacagcttc	accctgtcaa	gttaacaagg	aatgcctgtg	540
ccaataaaaag	gtttctccaa	cttgaagtct	actctgaaaa			580

<210> 383

<211> 608

<212> DNA

<213> Homo sapiens

<400> 383

gtgctagatg	aaaagcgtgc	aatatgyttt	aaagctatca	acaaaaactg	aatattataa	60
gcaagcaata	tcatagtaat	tggcagatta	gtcatattc	tatacagcat	cgtttaataa	120
ggaaaaattt	aatgctagca	aaaaataaat	ttagaaatat	ggcatgacat	gaaaatacaa	180
tcttatattt	acaccagctt	ttcactaata	ttttgtacct	aaggtgatgg	ggaactccat	240

```

tcagataata aaattctctt tcagctagag aagttaacag gaataaatat atgaacaaaa 300
aagctgcaag gataaatgtg gagaaaatga tgagaattag ctaacatttt taagtttttt 360
taaactttct tccctcact tagttgtact taatatattg tggaaagtaa taattttttt 420
aattttctat caactaatag tatagtaact atgattaact tgtttacttt ttctgaggat 480
tagtaaatca attttttttt tatttcaaat ttttgattt acacttgagg gtaaatataa 540
tctggtaaac tgaatttcct agttaaataa aattagttgc agtatatgat gaacagtgtg 600
tgactcaa                                     608

```

```

<210> 384
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<400> 384
ttatttcctt aaatattgct acaaaaggaa gatgcggggtg taagccctga tttttttttc 60
tcccaagaaa aatcttaaag gaccacttta gataatattt gattcctact gtaaaattta 120
gaaaatgatg aattcttgct catttttgta atcaagattt taggaaaaac agaagtacat 180
ctatctttat gaaattttgg gcagggtttt gtgtatcaat attttgtact tttagggaat 240
attttatttt ttagtatttt gtgtcaaat ataattataa aaggtaacgc agaaaatata 300
ccatgttttt atataggttc acacctgtac ttaggaggga cctgtccat ctatatactt 360
tttgtataaa attttaaaat gttaaagatc cacaagggtc taataaaatg attctatagc 420
tagaaaaaca tttaccttcc cagtgtcttg cactaaaata tactgtgaaa ggaaactaga 480
aagactgtaa ctattgctgg aaatgttcta tattgaatgt acatgctctt gttggaaaaa 540
tgtctatatg tgatggaaat aaaccagaat cgaagttatt tcaaa                                     585

```

```

<210> 385
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

```

```

<400> 385
atattgtaca gtatttatcg agataaacat ggtwatcaaa atgtccattg tttataagct 60
gagaatttgc caatattttt caaggagagg cttcttgctg aatttttgatt ctgcagctga 120
aatttaggac agttgcaaac gtgaaaagaa gaaaattatt caaatttgga cattttaatt 180
gtttaaaaat tgtacaaaag gaaaaaatta gaataagtac tggcgaacca tctctgtggt 240
cttgtttaaa aagggcaaaa gtttttagact actaaatttt ttaacagtaa gttataaaat 300
ttagtagtct aaaacttata acttactgtt aaaagcaaaa atggccatgc aggttgacac 360
cgttggtaat ttataatagc ttttggtcga tcccaacttt ccattttgtt cagataaaaa 420
aaaccatgaa attactgngt ttgaaatatt ttcttatggt ttgtaaatatt tctgtaaatt 480
tattgtgata ttttaaggnt ttccccctt t                                     511

```

```

<210> 386
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(311)

```

<223> n = A,T,C or G

<400> 386

```
gtggaattcc atgaatntag ttcccatcat gacttanaag gtgctgtagg tgggtactac 60
ccagaaccca gtnagctttg tcaacttgat caaagtgatt ctgatttcca tggagatctt 120
acatttcaac acgtatttca taaccacact taccacttac agccaactgc accagaatct 180
acttctgaac cttttccgtg gcttggaag tcacagaaga taaggagtag ataccttgaa 240
gacacagata gaaacttgag cctgatgaa cagcngcta aagctttgca tatccctttt 300
tctgtagatg a                                     311
```

<210> 387

<211> 461

<212> DNA

<213> Homo sapiens

<400> 387

```
cacagatagc aagacttcat ttcaggagtt gggagtggga agtaggaagt gtttaatccc 60
aagtttttgt gccctaaaat ggctagtagt atagttaatt ctcaattctc tagctgtgat 120
cttctgtgcc ttctatctct ttoctaaggaa aaccacatta gatgaaccca gggctcagtc 180
atttttaggga gaggggtgag acaacactgc cagcaacaca gctggaatca cccgagtcgg 240
gaacattaaa gttcctgaga gaatatgaaa caactatcaa cataatattt ctccctactt 300
ttacagtaaa atattggaag taaataaata tagggaatgc aacaactggc taggagtgtt 360
ttacattcag ttgtttggaa gcataacaca ttcagctcct ttgaatcttc ccgtagagaa 420
atacagaatt actctatcac cttttaaggt acagtaaaaa a                                     461
```

<210> 388

<211> 555

<212> DNA

<213> Homo sapiens

<400> 388

```
ggataaaggc cagggatgct gctcaacctc ctaccatgta caggacgtct cccattaca 60
actaccaat ccgaagtgtc aactgtgtca ggactaagaa accctggttt tgagtagaaa 120
agggcctgga aagaggggag ccaacaaatc tgtctgcttc ctacacattag tcaattggcaa 180
ataagcattc tgtctctttg gctgctgcct cagcacagag agccagaact ctatcgggca 240
ccaggataac atctctcagt gaacagagtt gacaaggcct atgggaaatg cctgatggga 300
ttatcttcag cttgttgagc ttctaagttt ctttcccttc attctaccct gcaagccaag 360
ttctgtaaga gaaatgcctg agttctagct caggttttct tactctgaat ttagatctcc 420
agacccttcc tggccacaat tcaaattaag gcaacaaaca tataccttcc atgaagcaca 480
cacagacttt tgaaagcaag gacaatgact gcttgaattg aggccttgag gaatgaagct 540
ttgaaggaaa agaatt                                     555
```

<210> 389

<211> 563

<212> DNA

<213> Homo sapiens

<400> 389

```
ttattttgtt cagctgagta ccatcaggat atttaaccct ttaagtgtctg ttttgggagt 60
agaaaactaa agcaacaata ctctctcttg acagctttga ttggaatggg gttattagat 120
cattcacctt ggtcctacac tttttaggat gcttggtgaa cataacacca cttataatga 180
acatccctgg ttctatatt ttgggctatg tgggtaggaa ttgttacttg ttactgcagc 240
agcagcccta gaaagtaagc ccagggtctc agatctaagt tagtccaaaa gctaaatgat 300
ttaaagtcaa gttgtaatgc taggcataag cactctataa tacattaaat tataggccga 360
```

```

gcaattaggg aatgtttctg aaacattaaa cttgtattta tgtcactaaa attctaacac 420
aaacttaaaa aatgtgtctc atacatatgc tgtactaggg ttcattcatgc atttctaaat 480
ttgtgtatga tttgaatata tgaaagratt tatacaagag tgttatttaa aattattaaa 540
aataaatgta tataatttga aaa 563

```

<210> 390

<211> 278

<212> DNA

<213> Homo sapiens

<400> 390

```

gaacattatg ttttagatgg gtagtactag ctactcatct gtccccaga aaccaagct 60
aagcatggac atattgaaga gaatgtcagc accattaaaa aaactctaga aaaatcacat 120
gtgatgactg aggttaattc agtctgtcaa ttacatcagt ataattgcct tcttgaacc 180
ctaagtatgg tgaagcagaa ttgaattcta caaagtcctt tcatctgttt tcctatggaa 240
taattaacaa acccaataaa tgtataaata gcatgaaa 278

```

<210> 391

<211> 578

<212> DNA

<213> Homo sapiens

<400> 391

```

cggcgctcgg ctgcaggat ggatcccgtg cccgggacag actcggcgcc gctggtctggc 60
ctggcctggt cgtcggcctc tgcaccccg cgcgggggt tcagcgcgat ctctgcacc 120
gtcgaggggg caccgcag ctttggcaag agcttcgcgc agaaatctgg ctacttctg 180
tgcttagatt ctctgggcag cctagagaac ccgcaggaga acgtggtggc cgatatccag 240
atcgtggtgg acaagagccc cctgccgctg ggcttctccc ccgtctgcga ccccatggat 300
tccaaggcct ctgtgtccaa gaagaaacgc atgtgtgtga agctgttgcc cctgggagcc 360
acggacacgg ctgtgtttga tgtccggctg agtgggaaga ccaagacagt gcctggatac 420
cttcgaatag gggacatggg cggctttgcc atctggtgca agaaggccaa ggccccgagg 480
ccagtgccca agccccgagg tctcagccgg gacatgcagg gcctctctct ggatgcagcc 540
agccagccaa gtaaggcg cctcctggag cggacagc 578

```

<210> 392

<211> 439

<212> DNA

<213> Homo sapiens

<400> 392

```

ttcaacaaac cttgtatagt gtatgttttg ccatatttaa tattaatagc agaggaagac 60
tccttttttc atcactgtat gaatttttta taatgttttt ttaaaatata tttcatgtat 120
acttataaac taattcacac aagtgtttgt cttagatgat taaggaagac tataatctaga 180
tcatgtctga ttttttattg tgacttctcc agccctggtc tgaatttctt aaggttttat 240
aaacaaatgc tgctatttat tagctgcaag aatgcacttt agaactattt gacaattcag 300
actttcaaaa taaagatgta aatgactggc caataataac catttttagga aggtgttttg 360
aattctgtat gtatatattc actttctgac atttagatat gccaaaagaa ttaaaatcaa 420
aagcactaag aaataaaaa 439

```

<210> 393

<211> 544

<212> DNA

<213> Homo sapiens

<400> 393

```

tttgaattta caccaagaac ttotcaataa aagaaaatca tgaatgctcc acaatttcaa 60
cataccacaa gagaagttaa tttcttaaca ttgtgttcta tgattatttg taagaccttc 120
accaagttct gatattcttt aaagacatag ttcaaaattg cttttgaaaa tctgtattct 180
tgaaaatata cttgttgtgt attaggtttt taaataccag ctaaaggatt acctcactga 240
gtcatcagta cctcctatt cagctcccca agatgatgtg tttttgctta ccctaagaga 300
ggttttcttc ttatttttag ataattcaag tgcttagata aattatgttt tctttaagt 360
tttatggtaa actcttttaa agaaaattta atatgttata gctgaatctt tttggtaact 420
ttaaatcttt atcatagact ctgtacatat gttcaaatta gctgcttgcc tgatgtgtgt 480
atcatcgggtg ggatgacaga acaaacatat ttatgatcat gaataatgtg ctttgtaaaa 540
agat 544

```

<210> 394

<211> 424

<212> DNA

<213> Homo sapiens

<400> 394

```

aaacatcatt tagcagcaat gaacctgtca acacatggaa ataaggttta cagtcatgca 60
aatgtccatt taactttgtt tgagccaaac aaatataaca gtaaaactaat tagactggct 120
tacatccccg tagacagtga aaccaattat ttcttaaaga agggtttgct tgtttttact 180
ctagggcaaa ggtgcataac ttcttgtaat actcctgaat agttcttcaa atcaggacag 240
ataaagtttg caactgatgg aatagctacc ttgatgtgca aatggttggg tctttaatta 300
ggttcattta tataattgag aaagaagcca gggaatgcat ttgtgcaagg atgattttaa 360
aagaagaggg atggctctgcc ttttaattct gtatgggagg aaaattcata aaaaactgaa 420
aaaa 424

```

<210> 395

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(279)

<223> n = A,T,C or G

<400> 395

```

ttcctatgat nattaaactc attctcaggg ttaagaaagg aatgtaaatt tctgcctcaa 60
tttgcacttc atcaataagt ttttgaagag tgcagatttt tagtcaggct ttaaaaaata 120
actcacaaat ctggatgcat ttctaaattc tgcaaatgtt tcctgggggtg acttaacaag 180
gaataatccc acaatatacc tagctacctt atacatggag ctgggggtca acccactgtt 240
tttaaggatt tgcgcttact tgtggctgan gaaaaataa 279

```

<210> 396

<211> 3293

<212> DNA

<213> Homo sapiens

<400> 396

```

cagccccggg ccaggccgcg gccggggcag gagcgcaggg gctttgttat gcacctaaag 60
ccatattgga agctccagaa gaaagagcac cccccggaag tcagcagga aacgcagaga 120
actcctatga accacaaaaa ggctgtaaat gatgaaacat gcaaagctag ccacataaca 180

```


tcaagtgtct	ttccttcagc	ctctctcggt	aaagcatcat	ctcgaaagcc	at ttgggagc	240
ctttctccaa	atgttctgtg	cagtatgagt	gggaagagtc	ctgtagagag	cagcttgaat	300
gttaaaacca	aaaagaatgc	accatctgca	acgatccacc	agggcgaaga	agaaggacca	360
cttgatatct	gggctgttgt	gaaacctgga	aataccaagg	aaaaaattgc	attctttgca	420
tcccaccagt	gtagtaacag	gataggatct	atgaaaataa	aaagttcctg	ggatattgat	480
gggagagcta	ctaagagaag	gaaaaaatca	ggggatctta	aaaaagccaa	ggtacagggtg	540
gaaaggatga	gggaggttaa	cagcagggtgc	taccaacctg	agccttttgc	atgtggcatt	600
gagcactggt	ctgtgcacta	tgtgagtgc	agtggggatg	gagtcctatg	tgggaggcct	660
ctgtcagtta	tacagatggg	tgccttcttg	gagcaaagag	ccagtgcctt	gctagctagc	720
tgttcaaaaa	actgcacaaa	ctcacctgca	attgtgaggt	tttctggcca	atccagaggt	780
gtgcctgcag	tgtctgagtc	ctattctgcc	ccaggagctt	gtgaagaacc	cacagaaagg	840
ggaaatcttg	aggttggtga	accacagagc	gaaccagtc	gtgtccttga	catggtagcc	900
aagttggagt	ctgagtgcct	gaagcggcag	ggccagcgtg	agcctgggag	cctctcaagg	960
aataacagct	tccgtcgaaa	tgtgggcaga	gtattgcttg	caaatagcac	tcaggctgat	1020
gaaggcaaaa	caaagaaagg	cgtcttggag	gcacctgaca	ctcaggtgaa	tcctgtgggg	1080
tctgtatctg	tggattgttg	cccttcaaga	gctgatcggt	gttctcctaa	ggaggaccag	1140
gcctgggacg	gtgcttctca	ggaactgccc	ccattgccag	caggagttag	tttccacata	1200
gacagtgcag	agttagagcc	gggttcgcaa	actgccgtga	aaaacagcaa	cagatatgat	1260
gtggaaatga	cagatgaact	cgttgggtta	cttttttctt	ctcatacctt	ttcccaagcc	1320
tctgaattgc	ccacagatgc	tgttgattgt	atgagcagag	agcttgtgtc	ccttactagc	1380
cgaaatcctg	atcaaagaaa	agaatctttg	tgcattagta	tcactgtgtc	caaggtagac	1440
aaagaccagc	cttccatttt	aaactcctgt	gaagaccag	ttccagggat	gttggttttt	1500
ttgccacctg	gtcagcactt	gtcagactat	tcccagttga	atgaaagcac	aacaaaagag	1560
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<211> 727
 <212> PRT
 <213> Homo sapiens

<400> 397

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			20					25					30		
Glu	Val	Ser	Arg	Glu	Thr	Gln	Arg	Thr	Pro	Met	Asn	His	Gln	Lys	Ala
		35					40					45			
Val	Asn	Asp	Glu	Thr	Cys	Lys	Ala	Ser	His	Ile	Thr	Ser	Ser	Val	Phe
	50					55					60				
Pro	Ser	Ala	Ser	Leu	Gly	Lys	Ala	Ser	Ser	Arg	Lys	Pro	Phe	Gly	Ile
	65				70					75				80	
Leu	Ser	Pro	Asn	Val	Leu	Cys	Ser	Met	Ser	Gly	Lys	Ser	Pro	Val	Glu
			85						90					95	
Ser	Ser	Leu	Asn	Val	Lys	Thr	Lys	Lys	Asn	Ala	Pro	Ser	Ala	Thr	Ile
			100					105					110		
His	Gln	Gly	Glu	Glu	Glu	Gly	Pro	Leu	Asp	Ile	Trp	Ala	Val	Val	Lys
		115					120					125			
Pro	Gly	Asn	Thr	Lys	Glu	Lys	Ile	Ala	Phe	Phe	Ala	Ser	His	Gln	Cys
	130					135					140				
Ser	Asn	Arg	Ile	Gly	Ser	Met	Lys	Ile	Lys	Ser	Ser	Trp	Asp	Ile	Asp
	145				150					155				160	
Gly	Arg	Ala	Thr	Lys	Arg	Arg	Lys	Lys	Ser	Gly	Asp	Leu	Lys	Lys	Ala
				165					170					175	
Lys	Val	Gln	Val	Glu	Arg	Met	Arg	Glu	Val	Asn	Ser	Arg	Cys	Tyr	Gln
			180					185					190		
Pro	Glu	Pro	Phe	Ala	Cys	Gly	Ile	Glu	His	Cys	Ser	Val	His	Tyr	Val
	195						200					205			
Ser	Asp	Ser	Gly	Asp	Gly	Val	Tyr	Ala	Gly	Arg	Pro	Leu	Ser	Val	Ile
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Gln	Met	Val	Ala	Phe	Leu	Glu	Gln	Arg	Ala	Ser	Ala	Leu	Leu	Ala	Ser
	225				230					235				240	
Cys	Ser	Lys	Asn	Cys	Thr	Asn	Ser	Pro	Ala	Ile	Val	Arg	Phe	Ser	Gly
			245						250					255	
Gln	Ser	Arg	Gly	Val	Pro	Ala	Val	Ser	Glu	Ser	Tyr	Ser	Ala	Pro	Gly
			260					265					270		
Ala	Cys	Glu	Glu	Pro	Thr	Glu	Arg	Gly	Asn	Leu	Glu	Val	Gly	Glu	Pro
	275						280					285			
Gln	Ser	Glu	Pro	Val	Arg	Val	Leu	Asp	Met	Val	Ala	Lys	Leu	Glu	Ser
	290					295				300					
Glu	Cys	Leu	Lys	Arg	Gln	Gly	Gln	Arg	Glu	Pro	Gly	Ser	Leu	Ser	Arg
	305				310					315				320	
Asn	Asn	Ser	Phe	Arg	Arg	Asn	Val	Gly	Arg	Val	Leu	Leu	Ala	Asn	Ser
			325						330					335	
Thr	Gln	Ala	Asp	Glu	Gly	Lys	Thr	Lys	Lys	Gly	Val	Leu	Glu	Ala	Pro
			340					345					350		
Asp	Thr	Gln	Val	Asn	Pro	Val	Gly	Ser	Val	Ser	Val	Asp	Cys	Gly	Pro
	355						360					365			
Ser	Arg	Ala	Asp	Arg	Cys	Ser	Pro	Lys	Glu	Asp	Gln	Ala	Trp	Asp	Gly
	370					375					380				
Ala	Ser	Gln	Asp	Cys	Pro	Pro	Leu	Pro	Ala	Gly	Val	Ser	Phe	His	Ile

385					390					395				400
Asp	Ser	Ala	Glu	Leu	Glu	Pro	Gly	Ser	Gln	Thr	Ala	Val	Lys	Asn
				405					410					415
Asn	Arg	Tyr	Asp	Val	Glu	Met	Thr	Asp	Glu	Leu	Val	Gly	Leu	Pro
			420					425					430	
Ser	Ser	His	Thr	Tyr	Ser	Gln	Ala	Ser	Glu	Leu	Pro	Thr	Asp	Ala
		435					440					445		
Asp	Cys	Met	Ser	Arg	Glu	Leu	Val	Ser	Leu	Thr	Ser	Arg	Asn	Pro
	450					455				460				
Gln	Arg	Lys	Glu	Ser	Leu	Cys	Ile	Ser	Ile	Thr	Val	Ser	Lys	Val
465					470				475					480
Lys	Asp	Gln	Pro	Ser	Ile	Leu	Asn	Ser	Cys	Glu	Asp	Pro	Val	Pro
				485				490						495
Met	Leu	Phe	Phe	Leu	Pro	Pro	Gly	Gln	His	Leu	Ser	Asp	Tyr	Ser
		500					505					510		
Leu	Asn	Glu	Ser	Thr	Thr	Lys	Glu	Ser	Ser	Glu	Ala	Ser	Gln	Leu
	515					520						525		
Asp	Ala	Ala	Gly	Gly	Asp	Ser	Ala	Ser	Glu	Glu	Lys	Ser	Gly	Ser
	530				535						540			
Glu	Pro	Phe	Val	Leu	Pro	Ala	Ser	Ser	Val	Glu	Ser	Thr	Leu	Pro
545					550				555					560
Leu	Glu	Ala	Ser	Ser	Trp	Lys	Lys	Gln	Val	Ser	His	Asp	Phe	Leu
			565					570						575
Thr	Arg	Phe	Lys	Ile	Gln	Gln	Leu	Leu	Glu	Pro	Gln	Gln	Tyr	Met
		580					585						590	
Phe	Leu	Pro	His	His	Ile	Met	Val	Lys	Ile	Phe	Arg	Leu	Leu	Pro
	595					600					605			
Lys	Ser	Leu	Val	Ala	Leu	Lys	Cys	Thr	Cys	Cys	Tyr	Phe	Lys	Phe
	610				615						620			
Ile	Glu	Tyr	Tyr	Asn	Ile	Arg	Pro	Ala	Asp	Ser	Arg	Trp	Val	Arg
625				630					635					640
Pro	Arg	Tyr	Arg	Glu	Asp	Pro	Cys	Lys	Gln	Cys	Lys	Lys	Lys	Tyr
			645					650						655
Lys	Gly	Asp	Val	Ser	Leu	Cys	Arg	Trp	His	Pro	Lys	Pro	Tyr	Cys
		660					665					670		
Ala	Leu	Pro	Tyr	Gly	Pro	Gly	Tyr	Trp	Met	Cys	Cys	His	Arg	Ser
	675					680						685		
Lys	Gly	Phe	Pro	Gly	Cys	Lys	Leu	Gly	Leu	His	Asp	Asn	His	Trp
	690				695					700				
Pro	Ala	Cys	His	Ser	Phe	Asn	Arg	Ala	Ile	His	Lys	Lys	Ala	Lys
705					710				715					720
Thr	Glu	Ala	Glu	Glu	Glu	Tyr								
				725										

<210> 398
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 398
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 cactatgtcg ggtggcctcc tgaaggcgtc gcgcagcgac tcctacgtgg agctgagcca 120
 gtaccgggac cagcacttcc ggggtgacaa tgaagaacaa gaaaaattac tgaagaaaag 180

```

ctgtacgtta tatgttgga atctttcttt ttacacaact gaagaacaaa tctatgaact 240
cttcagcaaa agtggtgaca taaagaaaat cattatgggt ctggataaaa tgaagaaaac 300
agcatgtgga ttctgttttg tggaaatatta ctcacgcgca gatgcggaaa acgccatgcg 360
gtacataaat gggacgcgctc tggatgaccg aatcattcgc aca 403

```

<210> 399

<211> 403

<212> DNA

<213> Homo sapiens

<400> 399

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ttttgatgct ttctttcatg ggaatagtca cttttttatt tagtaaactg cattgctgga 60
accaccaagg agtgtggaat gtccttgagt gtattattta tgcaagtcac agtcacgttg 120
ccatcatggc agctatgtga aacactaata aatgtgtttt tactttttat tcccgttaaa 180
actgatgtaa aacaggataa aggcttggtta tagtcactta taagtatctg ggtctaagta 240
atttccttag atgtttctaa agaaacattt tcagctttgc tcccattatg attccaataa 300
ggaacgcttt cctagtgaac ttttaggagt aaagtttgaa gagataaaaa tagccaaaga 360
taggagacgt ctgaattttg aatgataaac agtgcgtttt taa 403

```

<210> 400

<211> 283

<212> DNA

<213> Homo sapiens

<400> 400

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ttatTTTTcc cctcaaattc atgattttta cgtctgttac aaaggaatt ttgctgatag 60
ctctttgggt cccactgttc cattttatgc taatagattc cattctaggg ccagccgctc 120
tcttgactga tgggtgtccc ttttaacctt ggcattgtata atagaatttt ggtgaatgaa 180
agaacccaaa taggccagat agtcccccca ggccctgata tccataaaaag gcttgggaat 240
gcattatgta attgtcctta gtctttttgt tgttttagaa aaa 283

```

<210> 401

<211> 303

<212> DNA

<213> Homo sapiens

<400> 401

```

cataaagggt gtgcgcgtct togacgtggc ggtcttggcg ccaactgctgc gagaccggcg 60
cctggacctc aagggtcatcc acttggtgcg tgatccccgc gcggtggcga gttcacggat 120
ccgctcgcgc cacggcctca tccgtgagag cctacagggt gtgcgcagcc gagaccggcg 180
agctcaccgc atgcccttct tggaggccgc gggccacaag cttggcgcca agaaggaggg 240
cgtgggcggc cccgcagact accacgctct gggcgctatg gaggtcatct gcaatagtat 300
ggc 303

```

<210> 402

<211> 473

<212> DNA

<213> Homo sapiens

<400> 402

```

ccaacacagt cagaaacatt gttttgaatc ctctgtaaac caaggcatta atcttaataa 60
accaggatcc atttaggtac cacttgatat aaaaaggata tccataatga atattttata 120
ctgcatcctt tacattagcc actaaatacg ttattgcttg atgaagacct ttacagaat 180
cctatggatt gcagcatttc acttggctac ttcataccca tgccttaaag aggggcagtt 240

```

```

tctcaaaagc agaaacatgc cgccagttct caagttttcc tcctaactcc atttgaatgt 300
aagggcagct ggccccaat gtggggaggt ccgaacattt tctgaattcc cattttcttg 360
ttcgcggtta aatgacagtt tctgtcatta cttagattcc gatctttccc aaagggtgtg 420
atttacaag aggccagcta atagcagaaa tcatgaccct gaaagagaga tga 473

```

<210> 403

<211> 513

<212> DNA

<213> Homo sapiens

<400> 403

```

ggcattaact tttagaattht gggtctggtga gattaattht ttttaatatc ccagctagag 60
atatggcctt taactgacct aaagaggtgt gttgtgattt aattttttcc cgttcctttt 120
tcttcagtaa acccaacaat agtctaacct taaaaattga gttgatgtcc ttataggtca 180
ctacccttaa ataaacctga agcaggtgtt ttctcttgga cataactaaa aatacctaaa 240
aggaagctta gatggtctgt gacacaaaaa attcaattac tgtcatctaa tgccagctgt 300
taaaagtgtg gccactgagc atttgatttt ataggaaaaa atagtatttt tgagaataac 360
atagctgtgc tattgcacat ctgttgagg agatcccaga tttgcttata ctcaagtgcct 420
gtgatattga gtttaaggat ttgaggcagg ggtaattatt aaacatattg cttctattct 480
tggaataata gaagtgtaaa atgttaataa tac 513

```

<210> 404

<211> 533

<212> DNA

<213> Homo sapiens

<400> 404

```

ccagtggtgt ggaattcgcg gtaggtggg accataaac aagcatgact atatgaagga 60
agaggaaggt tttcctgaag atgaggcgac tgaatcgga aaaaacttta agtttggtta 120
aagagttgga tgcctttccg aaggttcctg agagctatgt agagacttca gccagtgagg 180
gtacagtttc tctaatagca tttacaacta tggctttatt aaccataatg gaattctcag 240
tatatcaaga tacatggatg aagtatgaat acgaagtaga caaggatttt tctagcaaatt 300
taagaattaa tatagatatt actggtgcca tgaagtgtca atatgttgga gcggatgtat 360
tggttttagc agaaacaatg gttgcatctg cagatggttt agtttatgaa ccaacagtat 420
ttgatctttc accacagcag aaagagtggt agaggatgct gcagctgatt cagagtaggc 480
tacaagaaga gcattcactt caagatgtga tatttaaaag tgctttttaa agt 533

```

<210> 405

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (513)

<223> n = A,T,C or G

<400> 405

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ccagnnggtt ggaattcctt agacatatct tgagcctaca gcagaggaac ctccagttct 60
agcaccatga atcaaactgc cattctgatt tgctgcctta tctttctgac tctaagtggc 120
attcaaggag taccctctctc tagaactgta cgctgtacct gcattcagcat tagtaatcaa 180
cctgttaatc caaggctctt agaaaaactt gaaattattc ctgcaagcca attttgtcca 240
cgtgttgaga tcattgctac aatgaaaaag aagggtgaga agagatgtct gaatccagaa 300
tcgaaggcca tcaagaattt actgaaagca gtttagcaagg aaaggtctaa aagatctcct 360

```

```

taaaaccaga ggggagcaaa atcgatgcag tgcttccaag gatggaccac acagaggctg 420
cctctcccat cacttcccta catggagtat atgtcaagcc ataattgttc ttagtttgca 480
gttacctaa aaggtgacca atcatggtca cca 513

```

```

<210> 406
<211> 483
<212> DNA
<213> Homo sapiens

```

```

<400> 406
atataccatt taatacattt acactttctt atttaagaag atattgaatg caaaataatt 60
gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120
acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180
ctgactctaa tcaaatgtga tgattggaat tagaccattt ggcctttgaa ctttcatagg 240
aaaaatgacc caacatttct tagcatgagc tacctcatct ctagaagctg ggatggactt 300
actattcttg tttatatattt agatactgaa aggtgctatg cttctgttat tattccaaga 360
ctggagatag gcagggctaa aaaggtatta ttatttttcc tttaatgatg gtgctaaaat 420
tcttcctata aaattcctta aaaataaaga tggtttaatc actaccattg tgaaaacata 480
act 483

```

```

<210> 407
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

```

```

<400> 407
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ctgactaagg ttgacataat angtcacact cccattactt tgatatctga tcaaatgtat 120
agactnggct ttgttttttg tgctattagg aaattctgat gagcattact attcaactgat 180
gcagaaagac gttcttttgc ataaaagact ttttttaaca ctttggactt ctctgaaata 240
t 241

```

```

<210> 408
<211> 213
<212> DNA
<213> Homo sapiens

```

```

<400> 408
ccagtgtggt ggaattcaca tgatacagcc actgggctta tacagtatgc attggaccag 60
ggcgtgaacg tcaccaggt attcgtggac accgtagga tgccagagac ataccaggcg 120
cggttgcagc aaagttttcc cgggattgag gggaccggcc aaggccaaag cagatgcctt 180
ctaccggtg gtagtgctg ccagcatctg tgc 213

```

```

<210> 409
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<400> 409

```

```

tcagatgagt ggctgctgaa ggggccccct tgtcattttc attataaacc aatttccact 60
tatttgaact cttaagtcac aaatgtataa tgacttatga attagcacag ttaagttgac 120
actagaaact gccattttct gtattacact atcaaataag aaacattgga aagatgggga 180
aaaaaatctt attttaaaat ggcttagaaa gttttcagat tactttgaaa attctaaact 240
tctttctgtt tccaaaactt gaaaatatgt agatggactc atgcattaag actgttttca 300
aagctttcct cacattttta aagtgtgatt ttctttttaa tatacatatt tattttcttt 360
aaagcagcta tatcccaacc catgactttg gagatatacc tataaaacca ata 413

```

<210> 410

<211> 153

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(153)

<223> n = A,T,C or G

<400> 410

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gcaaaccacg actgaagaaa gacgaaaagt gggaaataac ttgcaacgtc tgtagagat 60
ggttgctaca catgttgggt ctgtaganaa acatcttgag gagcagattc ctaaagttga 120
taganaatat gaagaatgca tgtcaaaaga tct 153

```

<210> 411

<211> 253

<212> DNA

<213> Homo sapiens

<400> 411

```

cagtgtggtg gaattcgctg gcgaaagcgg cggaagttc gtactgggca gaacgcgacg 60
ggtctgcggc ttaggtgaaa atgcctcgct taaaagcagc tcaagctgga agacagagct 120
ctgcaaagag acatcttgca gaacaatttg caagttggag agataataac tgacatggca 180
aaaaaggaat ggaaagtagg attaccattt ggccaaggag gctttggctg tatatatctt 240
gctgatatga att 253

```

<210> 412

<211> 3079

<212> DNA

<213> Homo sapiens

<400> 412

```

gaagtgagta gtgggggtgc cagaccaggt gcgtctgccg ctggattgtg ataggaagca 60
gagtgttcgt gtgaaagatg gatactatga tgctgaatgt gcggaatctg tttgagcagc 120
ttgtgcgccg ggtggagatt ctcaagtgaag gaaatgaagt ccaatttata cagttggcga 180
aggactttga ggatttcgtt aaaaagtggc agaggactga ccatgagctg gggaaataca 240
aggatctttt gatgaaagca gagactgagc gaagtgtctt ggatgttaag ctgaagcatg 300
cacgtaatca ggtggatgta gagatcaaac ggagacagag agctgaggct gactgcgaaa 360
agctggaacg acagattcag ctgattcgag agatgtctcat gtgtgacaca tctggcagca 420
ttcaactaag cgaggagcaa aaatcagctc tggcttttct caacagaggc caaccatcca 480
gcagcaatgc tgggaacaaa agactatcaa ccattgatga atctggttcc attttatcac 540
atatcagctt tgacaagact gatgaatcac tggattggga ctcttctttg gtgaagactt 600
tcaaactgaa gaagagagaa aagaggcgct ctactagccg acagtgtgtt gatggcccc 660
ctggacctgt aaagaaaact cgttccattg gctctgcagt agaccagggg aatgaatcca 720
tagttgcaaa aactacagtg actgttccca atgatggcgg gcccatcgaa gctgtgtcca 780

```

```
<210> 413
<211> 632
<212> PRT
<213> Homo sapiens
```

Met	Asp	Thr	Met	Met	Leu	Asn	Val	Arg	Asn	Leu	Phe	Glu	Gln	Leu	Val
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Arg	Arg	Val	Glu	Ile	Leu	Ser	Glu	Gly	Asn	Glu	Val	Gln	Phe	Ile	Gln
			20					25					30		
Leu	Ala	Lys	Asp	Phe	Glu	Asp	Phe	Arg	Lys	Lys	Trp	Gln	Arg	Thr	Asp
		35					40					45			
His	Glu	Leu	Gly	Lys	Tyr	Lys	Asp	Leu	Leu	Met	Lys	Ala	Glu	Thr	Glu
	50					55				60					

Arg	Ser	Ala	Leu	Asp	Val	Lys	Leu	Lys	His	Ala	Arg	Asn	Gln	Val	Asp
65					70					75					80
Val	Glu	Ile	Lys	Arg	Arg	Gln	Arg	Ala	Glu	Ala	Asp	Cys	Glu	Lys	Leu
			85						90					95	
Glu	Arg	Gln	Ile	Gln	Leu	Ile	Arg	Glu	Met	Leu	Met	Cys	Asp	Thr	Ser
			100					105					110		
Gly	Ser	Ile	Gln	Leu	Ser	Glu	Glu	Gln	Lys	Ser	Ala	Leu	Ala	Phe	Leu
		115						120					125		
Asn	Arg	Gly	Gln	Pro	Ser	Ser	Ser	Asn	Ala	Gly	Asn	Lys	Arg	Leu	Ser
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<213> Homo sapiens

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<211> 3303

<212> DNA

<213> Homo sapiens

<400> 421

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<210> 422

<211> 1315

<212> DNA

<213> Homo sapiens

<400> 422

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<211> 2294

<212> DNA

<213> Homo sapiens

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<211> 3075

<212> DNA

<213> Homo sapiens

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tatgtgcaat	aaacaacacc	tccagacaga	tctacctgac	cgacaaccct	gaggcgcgtg	1200
cgatcaagtt	gaatcagacc	gctctgcaag	cagtgactcc	cattacaagt	tttgaaaaaa	1260
aacaagaaa	ctcatgcccc	agccagaacc	tgaaaaattc	agagatggaa	aatgaaaatg	1320
acaagattgt	tcccaaagca	acagccagtc	tacctgaagc	agaggagctg	atcgcgccctg	1380
gaacgccgat	tcaattcgat	attgtgcttc	ctgctacaga	attccttgat	cagaacagag	1440
ggagcaggcg	taccaaccct	tttggtgaaa	ctgaggatga	atcatttcca	gaagcagaag	1500
attctctttt	gcagcagatg	tttatagttc	ggtttttggg	atcaatggca	gttaaaacag	1560
acagcactac	ttgaagtgat	ttatgaagcg	atgagacaag	tattggctgc	tcgggctatt	1620
cataacatct	tccgcatgac	agaatcccat	ctgatggtca	ccagtcaatc	tttgagggtt	1680
atagatccac	agactcaagt	atcaagggcc	aattttgaac	ttaccagtgt	cacacaattt	1740

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gctgctcatc aagaaaaacaa gagactgggtt ggttttgtca tccgtgttcc tgaatccact 1800
ggagaagaat ctctgagtac atacattttt gaaagcaact cagaaggcga aaagatatgt 1860
tatgctatta atttgggaaa agaaattatt gaggttcaga aggatccaga agcactggct 1920
caattaatgc tgtccatacc actaaccaat gatggaaaat atgtactgtt aaacgatcaa 1980
ccagatgacg atgatggaaa tccaaatgaa catagaggcg cagaatccga agcataactc 2040
acttgcgctt gtgggggaag agcaaacagg aaggagagct acctcctaag ggttttaacg 2100
tctctgacat acaggcacac tgacctgatt tccgaaggct gacaatcggt tgtggaatgt 2160
aatcttgatg ccttgatact gagacttggg agggaaacta agaaatgggt gacagcggtc 2220
ccaccatctt acaatggtat tttagggtgt ttgtggtaag tcttttttct tagattgctc 2280
taaaatttct tagattgttc agcgctcaga acaaaagttt gaaaaatgca ttgttcatat 2340
gaatgtcatc tcttttcagt ttccagtatc ctttttaaaa aatggcaaaa gcctagattt 2400
acaatttgat gaacactaaa tatttcttat taatataatc tatttttgta ttttacttaa 2460
tgagctttta gtgcctgtcg ttctgaaaat tgtgtattta taattcagct tatctcacia 2520
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cagaagttta aggtcctcct aggtatgagt atttttagta gtggatcact gtggacaggg 2760
tgcagctcta ccagttcctg tttcttctga gccagaccct cttcagggaa gggaccaatt 2820
aattttaaaa ctcacttgaa gcacagctgg tcatggggct tggataaaag ttcctatttc 2880
caccctgata cttccaattc ctggaacccc agcccactcc cccatccctc ctccctatca 2940
aactagtata atgattttga atcggtacag tgtgtttaac tgtaactaag ttcaacagac 3000
tattattatc tttgtaataa attaacctag caataaaaat tattctgttt caaaaaaaaa 3060
aaaaaacac tcgag 3075

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<210> 425
<211> 819
<212> PRT
<213> Homo sapiens

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<400> 425
Gly Asp Phe Gly Gly Gly Ser Ser Leu Ala Ala Gly Met Ala Gly Thr
                    5                      10                      15
Val Val Leu Asp Val Glu Leu Arg Glu Ala Gln Arg Asp Tyr Leu
                    20                      25                      30
Asp Phe Leu Asp Asp Glu Glu Asp Gln Gly Ile Tyr Gln Ser Lys Val
                    35                      40                      45
Arg Glu Leu Ile Ser Asp Asn Gln Tyr Arg Leu Ile Val Asn Val Asn
                    50                      55                      60
Asp Leu Arg Arg Lys Asn Glu Lys Arg Ala Asn Arg Leu Leu Asn Asn
                    65                      70                      75                      80
Ala Phe Glu Glu Leu Val Ala Phe Gln Arg Ala Leu Lys Asp Phe Val
                    85                      90                      95
Ala Ser Ile Asp Ala Thr Tyr Ala Lys Gln Tyr Glu Glu Phe Tyr Val
                    100                     105                     110
Gly Leu Glu Gly Ser Phe Gly Ser Lys His Val Ser Pro Arg Thr Leu
                    115                     120                     125
Thr Ser Cys Phe Leu Ser Cys Val Val Cys Val Glu Gly Ile Val Lys
                    130                     135                     140
Cys Ser Leu Val Arg Pro Lys Val Val Arg Ser Val His Tyr Cys Pro
                    145                     150                     155                     160
Ala Thr Lys Lys Thr Ile Glu Arg Arg Tyr Ser Asp Leu Thr Thr Leu
                    165                     170                     175
Val Ala Phe Pro Ser Ser Ser Val Tyr Pro Thr Lys Asp Glu Glu Asn
                    180                     185                     190

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Asn	Pro	Leu	Glu	Thr	Glu	Tyr	Gly	Leu	Ser	Val	Tyr	Lys	Asp	His	Gln
		195					200					205			
Thr	Ile	Thr	Ile	Gln	Glu	Met	Pro	Glu	Lys	Ala	Pro	Ala	Gly	Gln	Leu
		210				215					220				
Pro	Arg	Ser	Val	Asp	Val	Ile	Leu	Asp	Asp	Asp	Leu	Val	Asp	Lys	Ala
225				230					235					240	
Lys	Pro	Gly	Asp	Arg	Val	Gln	Val	Val	Gly	Thr	Tyr	Arg	Cys	Leu	Pro
			245						250					255	
Gly	Lys	Lys	Gly	Gly	Tyr	Thr	Ser	Gly	Thr	Phe	Arg	Thr	Val	Leu	Ile
			260					265					270		
Ala	Cys	Asn	Val	Lys	Gln	Met	Ser	Lys	Asp	Ala	Gln	Pro	Ser	Phe	Ser
		275				280						285			
Ala	Glu	Asp	Ile	Ala	Lys	Ile	Lys	Lys	Phe	Ser	Lys	Thr	Arg	Ser	Lys
		290				295					300				
Asp	Ile	Phe	Asp	Gln	Leu	Ala	Lys	Ser	Leu	Ala	Pro	Ser	Ile	His	Gly
305				310						315				320	
His	Asp	Tyr	Val	Lys	Lys	Ala	Ile	Leu	Cys	Leu	Leu	Leu	Gly	Gly	Val
			325						330					335	
Glu	Arg	Asp	Leu	Glu	Asn	Gly	Ser	His	Ile	Arg	Gly	Asp	Ile	Asn	Ile
			340					345					350		
Leu	Leu	Ile	Gly	Asp	Pro	Ser	Val	Ala	Lys	Ser	Gln	Leu	Leu	Arg	Tyr
		355					360					365			
Val	Leu	Cys	Thr	Ala	Pro	Arg	Ala	Ile	Pro	Thr	Thr	Gly	Arg	Gly	Ser
		370				375						380			
Ser	Gly	Val	Gly	Leu	Thr	Ala	Ala	Val	Thr	Thr	Asp	Gln	Glu	Thr	Gly
385				390						395				400	
Glu	Arg	Arg	Leu	Glu	Ala	Gly	Ala	Met	Val	Leu	Ala	Asp	Arg	Gly	Val
			405					410						415	
Val	Cys	Ile	Asp	Glu	Phe	Asp	Lys	Met	Ser	Asp	Met	Asp	Arg	Thr	Ala
			420					425					430		
Ile	His	Glu	Val	Met	Glu	Gln	Gly	Arg	Val	Thr	Ile	Ala	Lys	Ala	Gly
		435					440					445			
Ile	His	Ala	Arg	Leu	Asn	Ala	Arg	Cys	Ser	Val	Leu	Ala	Ala	Ala	Asn
		450					455				460				
Pro	Val	Tyr	Gly	Arg	Tyr	Asp	Gln	Tyr	Lys	Thr	Pro	Met	Glu	Asn	Ile
465				470						475				480	
Gly	Leu	Gln	Asp	Ser	Leu	Leu	Ser	Arg	Phe	Asp	Leu	Leu	Phe	Ile	Met
			485						490					495	
Leu	Asp	Gln	Met	Asp	Pro	Glu	Gln	Asp	Arg	Glu	Ile	Ser	Asp	His	Val
			500					505					510		
Leu	Arg	Met	His	Arg	Tyr	Arg	Ala	Pro	Gly	Glu	Gln	Asp	Gly	Asp	Ala
		515					520					525			
Met	Pro	Leu	Gly	Ser	Ala	Val	Asp	Ile	Leu	Ala	Thr	Asp	Asp	Pro	Asn
		530				535					540				
Phe	Ser	Gln	Glu	Asp	Gln	Gln	Asp	Thr	Gln	Ile	Tyr	Glu	Lys	His	Asp
545				550						555				560	
Asn	Leu	Leu	His	Gly	Thr	Lys	Lys	Lys	Lys	Glu	Lys	Met	Val	Ser	Ala
			565						570					575	
Ala	Phe	Met	Lys	Lys	Tyr	Ile	His	Val	Ala	Lys	Ile	Ile	Lys	Pro	Val
		580						585					590		
Leu	Thr	Gln	Glu	Ser	Ala	Thr	Tyr	Ile	Ala	Glu	Glu	Tyr	Ser	Arg	Leu
		595					600					605			
Arg	Ser	Gln	Asp	Ser	Met	Ser	Ser	Asp	Thr	Ala	Arg	Thr	Ser	Pro	Val
610						615					620				

Thr Ala Arg Thr Leu Glu Thr Leu Ile Arg Leu Ala Thr Ala His Ala
 625 630 635 640
 Lys Ala Arg Met Ser Lys Thr Val Asp Leu Gln Asp Ala Glu Glu Ala
 645 650 655
 Val Glu Leu Val Gln Tyr Ala Tyr Phe Lys Lys Val Leu Glu Lys Glu
 660 665 670
 Lys Lys Arg Lys Lys Arg Ser Glu Asp Glu Ser Glu Thr Glu Asp Glu
 675 680 685
 Glu Glu Lys Ser Gln Glu Asp Gln Glu Gln Lys Arg Lys Arg Arg Lys
 690 695 700
 Thr Arg Gln Pro Asp Ala Lys Asp Gly Asp Ser Tyr Asp Pro Tyr Asp
 705 710 715 720
 Phe Ser Asp Thr Glu Glu Glu Met Pro Gln Val His Thr Pro Lys Thr
 725 730 735
 Ala Asp Ser Gln Glu Thr Lys Glu Ser Gln Lys Val Glu Leu Ser Glu
 740 745 750
 Ser Arg Leu Lys Ala Phe Lys Val Ala Leu Leu Asp Val Phe Arg Glu
 755 760 765
 Ala His Ala Gln Ser Ile Gly Met Asn Arg Leu Thr Glu Ser Ile Asn
 770 775 780
 Arg Asp Ser Glu Glu Pro Phe Ser Ser Val Glu Ile Gln Ala Ala Leu
 785 790 795 800
 Ser Lys Met Gln Asp Asp Asn Gln Val Met Val Ser Glu Gly Ile Ile
 805 810 815
 Phe Leu Ile

<210> 426
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 426
 Glu Pro Arg Gly Ser Arg Ala Arg Phe Gly Cys Trp Arg Leu Gln Pro
 5 10 15
 Glu Phe Lys Pro Lys Gln Leu Glu Gly Thr Met Ala Asn Cys Glu Arg
 20 25 30
 Thr Phe Ile Ala Ile Lys Pro Asp Gly Val Gln Arg Gly Leu Val Gly
 35 40 45
 Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly Phe Arg Leu Val Gly Leu
 50 55 60
 Lys Phe Met Gln Ala Ser Glu Asp Leu Leu Lys Glu His Tyr Val Asp
 65 70 75 80
 Leu Lys Asp Arg Pro Phe Phe Ala Gly Leu Val Lys Tyr Met His Ser
 85 90 95
 Gly Pro Val Val Ala Met Val Trp Glu Gly Leu Asn Val Val Lys Thr
 100 105 110
 Gly Arg Val Met Leu Gly Glu Thr Asn Pro Ala Asp Ser Lys Pro Gly
 115 120 125
 Thr Ile Arg Gly Asp Phe Cys Ile Gln Val Gly Arg Asn Ile Ile His
 130 135 140
 Gly Ser Asp Ser Val Glu Ser Ala Glu Lys Glu Ile Gly Leu Trp Phe
 145 150 155 160
 His Pro Glu Glu Leu Val Asp Tyr Thr Ser Cys Ala Gln Asn Trp Ile

Tyr Glu 165 170 175

 <210> 427
 <211> 570
 <212> PRT
 <213> Homo sapiens

 <400> 427
 Thr Glu Arg Ser Ala Leu Asp Val Lys Leu Lys His Ala Arg Asn Gln
 5 10 15
 Val Asp Val Glu Ile Lys Arg Arg Gln Arg Ala Glu Ala Asp Cys Glu
 20 25 30
 Lys Leu Glu Arg Gln Ile Gln Leu Ile Arg Glu Met Leu Met Cys Asp
 35 40 45
 Thr Ser Gly Ser Ile Gln Leu Ser Glu Glu Gln Lys Ser Ala Leu Ala
 50 55 60
 Phe Leu Asn Arg Gly Gln Pro Ser Ser Ser Asn Ala Gly Asn Lys Arg
 65 70 75 80
 Leu Ser Thr Ile Asp Glu Ser Gly Ser Ile Leu Ser Asp Ile Ser Phe
 85 90 95
 Asp Lys Thr Asp Glu Ser Leu Asp Trp Asp Ser Ser Leu Val Lys Thr
 100 105 110
 Phe Lys Leu Lys Lys Arg Glu Lys Arg Arg Ser Thr Ser Arg Gln Phe
 115 120 125
 Val Asp Gly Pro Pro Gly Pro Val Lys Lys Thr Arg Ser Ile Gly Ser
 130 135 140
 Ala Val Asp Gln Gly Asn Glu Ser Ile Val Ala Lys Thr Thr Val Thr
 145 150 155 160
 Val Pro Asn Asp Gly Gly Pro Ile Glu Ala Val Ser Thr Ile Glu Thr
 165 170 175
 Val Pro Tyr Trp Thr Arg Ser Arg Arg Lys Thr Gly Thr Leu Gln Pro
 180 185 190
 Trp Asn Ser Asp Ser Thr Leu Asn Ser Arg Gln Leu Glu Pro Arg Thr
 195 200 205
 Glu Thr Asp Ser Val Gly Thr Pro Gln Ser Asn Gly Gly Met Arg Leu
 210 215 220
 His Asp Phe Val Ser Lys Thr Val Ile Lys Pro Glu Ser Cys Val Pro
 225 230 235 240
 Cys Gly Lys Arg Ile Lys Phe Gly Lys Leu Ser Leu Lys Cys Arg Asp
 245 250 255
 Cys Arg Val Val Ser His Pro Glu Cys Arg Asp Arg Cys Pro Leu Pro
 260 265 270
 Cys Ile Pro Thr Leu Ile Gly Thr Pro Val Lys Ile Gly Glu Gly Met
 275 280 285
 Leu Ala Asp Phe Val Ser Gln Thr Ser Pro Met Ile Pro Ser Ile Val
 290 295 300
 Val His Cys Val Asn Glu Ile Glu Gln Arg Gly Leu Thr Glu Thr Gly
 305 310 315 320
 Leu Tyr Arg Ile Ser Gly Cys Asp Arg Thr Val Lys Glu Leu Lys Glu
 325 330 335
 Lys Phe Leu Arg Val Lys Thr Val Pro Leu Leu Ser Lys Val Asp Asp
 340 345 350

Ile His Ala Ile Cys Ser Leu Leu Lys Asp Phe Leu Arg Asn Leu Lys
 355 360 365
 Glu Pro Leu Leu Thr Phe Arg Leu Asn Arg Ala Phe Met Glu Ala Ala
 370 375 380
 Glu Ile Thr Asp Glu Asp Asn Ser Ile Ala Ala Met Tyr Gln Ala Val
 385 390 395 400
 Gly Glu Leu Pro Gln Ala Asn Arg Asp Thr Leu Ala Phe Leu Met Ile
 405 410 415
 His Leu Gln Arg Val Ala Gln Ser Pro His Thr Lys Met Asp Val Ala
 420 425 430
 Asn Leu Ala Lys Val Phe Gly Pro Thr Ile Val Ala His Ala Val Pro
 435 440 445
 Asn Pro Asp Pro Val Thr Met Leu Gln Asp Ile Lys Arg Gln Pro Lys
 450 455 460
 Val Val Glu Arg Leu Leu Ser Leu Pro Leu Glu Tyr Trp Ser Gln Phe
 465 470 475 480
 Met Met Val Glu Gln Glu Asn Ile Asp Pro Leu His Val Ile Glu Asn
 485 490 495
 Ser Asn Ala Phe Ser Thr Pro Gln Thr Pro Asp Ile Lys Val Ser Leu
 500 505 510
 Leu Gly Pro Val Thr Thr Pro Glu His Gln Leu Leu Lys Thr Pro Ser
 515 520 525
 Ser Ser Ser Leu Ser Gln Arg Val Arg Ser Thr Leu Thr Lys Asn Thr
 530 535 540
 Pro Arg Phe Gly Ser Lys Ser Lys Ser Ala Thr Asn Leu Gly Arg Gln
 545 550 555 560
 Gly Asn Phe Phe Ala Ser Pro Met Leu Lys
 565 570

<210> 428
 <211> 532
 <212> PRT
 <213> Homo sapiens

<400> 428
 Leu Leu Asp Ala Gly Pro Gln Phe Pro Ala Ile Gly Val Gly Ser Phe
 5 10 15
 Ala Arg His His His His Ser Ala Ala Ala Ala Ala Ala Ala Ala
 20 25 30
 Glu Met Gln Asp Arg Glu Leu Ser Leu Ala Ala Ala Gln Asn Gly Phe
 35 40 45
 Val Asp Ser Ala Ala Ala His Met Gly Ala Phe Lys Leu Asn Pro Gly
 50 55 60
 Ala His Glu Leu Ser Pro Gly Gln Ser Ser Ala Phe Thr Ser Gln Gly
 65 70 75 80
 Pro Gly Ala Tyr Pro Gly Ser Ala Ala Ala Ala Ala Ala Ala Ala
 85 90 95
 Leu Gly Pro His Ala Ala His Val Gly Ser Tyr Ser Gly Pro Pro Phe
 100 105 110
 Asn Ser Thr Arg Asp Phe Leu Phe Arg Ser Ala Arg Leu Pro Gly Thr
 115 120 125
 Ser Ala Pro Gly Gly Gly Gln His Gly Leu Phe Gly Pro Gly Ala Gly
 130 135 140
 Gly Leu His His Ala His Ser Asp Ala Gln Gly His Leu Leu Phe Pro

145		150		155		160
Gly Leu Pro Glu Gln	His Gly Pro His	Gly Ser Gln Asn Val	Leu Asn			
	165	170	175			
Gly Gln Met Arg Leu	Gly Leu Pro Gly	Glu Val Phe Gly	Arg Ser Glu			
	180	185	190			
Gln Tyr Arg Gln Val	Ala Ser Pro Arg	Thr Asp Pro Tyr	Ser Ala Ala			
	195	200	205			
Gln Leu His Asn Gln	Tyr Gly Pro Met	Asn Met Asn Met	Gly Met Asn			
	210	215	220			
Met Ala Ala Ala Ala	Ala His His His	His His His His	Pro			
225	230	235	240			
Gly Ala Phe Phe Arg	Tyr Met Arg Gln	Gln Cys Ile Lys	Gln Glu Leu			
	245	250	255			
Ile Cys Lys Trp Ile	Asp Pro Glu Gln	Leu Ser Asn Pro	Lys Lys Ser			
	260	265	270			
Cys Asn Lys Thr Phe	Ser Thr Met His	Glu Leu Val Thr	His Val Ser			
	275	280	285			
Val Glu His Val Gly	Gly Pro Glu Gln	Ser Asn His Val	Cys Phe Trp			
	290	295	300			
Glu Glu Cys Pro Arg	Glu Gly Lys Pro	Phe Lys Ala Lys	Tyr Lys Leu			
305	310	315	320			
Val Asn His Ile Arg	Val His Thr Gly	Glu Lys Pro Phe	Pro Cys Pro			
	325	330	335			
Phe Pro Gly Cys Gly	Lys Val Phe Ala	Arg Ser Glu Asn	Leu Lys Ile			
	340	345	350			
His Lys Arg Thr His	Thr Gly Glu Lys	Pro Phe Gln Cys	Glu Phe Glu			
	355	360	365			
Gly Cys Asp Arg Arg	Phe Ala Asn Ser	Ser Asp Arg Lys	Lys His Met			
	370	375	380			
His Val His Thr Ser	Asp Lys Pro Tyr	Leu Cys Lys Met	Cys Asp Lys			
385	390	395	400			
Ser Tyr Thr His Pro	Ser Ser Leu Arg	Lys His Met Lys	Val His Glu			
	405	410	415			
Ser Ser Pro Gln Gly	Ser Glu Ser Ser	Pro Ala Ala Ser	Ser Gly Tyr			
	420	425	430			
Glu Ser Ser Thr Pro	Pro Gly Leu Val	Ser Pro Ser Ala	Glu Pro Gln			
	435	440	445			
Ser Ser Ser Asn Leu	Ser Pro Ala Ala	Ala Ala Ala Ala	Ala Ala			
	450	455	460			
Ala Ala Ala Ala Ala	Ala Val Ser Ala	Val His Arg Gly	Gly Gly Ser			
465	470	475	480			
Gly Ser Gly Gly Ala	Gly Gly Gly Ser	Gly Gly Gly Ser	Gly Ser Gly			
	485	490	495			
Gly Gly Gly Gly Ala	Gly Gly Gly Gly	Gly Gly Gly Ser	Ser Gly Gly			
	500	505	510			
Gly Ser Gly Thr Ala	Gly Gly His Ser	Gly Leu Ser Ser	Asn Phe Asn			
	515	520	525			
Glu Trp Tyr Val						
530						

<210> 429

<211> 629

<212> PRT

<213> Homo sapiens

<400> 429

Gly Gly Ala Pro Ala Ser Phe Pro Gly Arg Ala Pro Arg Ser Leu Ala
 5 10 15
 Ser Gln Pro Ala Ala Arg Ala Ala Ala Pro Ala Met Pro Ser Ala
 20 25 30
 Lys Gln Arg Gly Ser Lys Gly Gly His Gly Ala Ala Ser Pro Ser Glu
 35 40 45
 Lys Gly Ala His Pro Ser Gly Gly Ala Asp Asp Val Ala Lys Lys Pro
 50 55 60
 Pro Pro Ala Pro Gln Gln Pro Pro Pro Pro Pro Ala Pro His Pro Gln
 65 70 75 80
 Gln His Pro Gln Gln His Pro Gln Asn Gln Ala His Gly Lys Gly Gly
 85 90 95
 His Arg Gly Gly Gly Gly Gly Gly Lys Ser Ser Ser Ser Ser Ser
 100 105 110
 Ala Ser Ala Ala Ala Ala Ala Ala Ala Ser Ser Ser Ala Ser Cys
 115 120 125
 Ser Arg Arg Leu Gly Arg Ala Leu Asn Phe Leu Phe Tyr Leu Ala Leu
 130 135 140
 Val Ala Ala Ala Ala Phe Ser Gly Trp Cys Val His His Val Leu Glu
 145 150 155 160
 Glu Val Gln Gln Val Arg Arg Ser His Gln Asp Phe Ser Arg Gln Arg
 165 170 175
 Glu Glu Leu Gly Gln Gly Leu Gln Gly Val Glu Gln Lys Val Gln Ser
 180 185 190
 Leu Gln Ala Thr Phe Gly Thr Phe Glu Ser Ile Leu Arg Ser Ser Gln
 195 200 205
 His Lys Gln Asp Leu Thr Glu Lys Ala Val Lys Gln Gly Glu Ser Glu
 210 215 220
 Val Ser Arg Ile Ser Glu Val Leu Gln Lys Leu Gln Asn Glu Ile Leu
 225 230 235 240
 Lys Asp Leu Ser Asp Gly Ile His Val Val Lys Asp Ala Arg Glu Arg
 245 250 255
 Asp Phe Thr Ser Leu Glu Asn Thr Val Glu Glu Arg Leu Thr Glu Leu
 260 265 270
 Thr Lys Ser Ile Asn Asp Asn Ile Ala Ile Phe Thr Glu Val Gln Lys
 275 280 285
 Arg Ser Gln Lys Glu Ile Asn Asp Met Lys Ala Lys Val Ala Ser Leu
 290 295 300
 Glu Glu Ser Glu Gly Asn Lys Gln Asp Leu Lys Ala Leu Lys Glu Ala
 305 310 315 320
 Val Lys Glu Ile Gln Thr Ser Ala Lys Ser Arg Glu Trp Asp Met Glu
 325 330 335
 Ala Leu Arg Ser Thr Leu Gln Thr Met Glu Ser Asp Ile Tyr Thr Glu
 340 345 350
 Val Arg Glu Leu Val Ser Leu Lys Gln Glu Gln Gln Ala Phe Lys Glu
 355 360 365
 Ala Ala Asp Thr Glu Arg Leu Ala Leu Gln Ala Leu Thr Glu Lys Leu
 370 375 380
 Leu Arg Ser Glu Glu Ser Val Ser Arg Leu Pro Glu Glu Ile Arg Arg
 385 390 395 400
 Leu Glu Glu Glu Leu Arg Gln Leu Lys Ser Asp Ser His Gly Pro Lys

405 410 415
 Glu Asp Gly Gly Phe Arg His Ser Glu Ala Phe Glu Ala Leu Gln Gln
 420 425 430
 Lys Ser Gln Gly Leu Asp Ser Arg Leu Gln His Val Glu Asp Gly Val
 435 440 445
 Leu Ser Met Gln Val Ala Ser Ala Arg Gln Thr Glu Ser Leu Glu Ser
 450 455 460
 Leu Leu Ser Lys Ser Gln Glu His Glu Gln Arg Leu Ala Pro Ala Gly
 465 470 475 480
 Ala Leu Glu Gly Leu Gly Ser Ser Glu Ala Asp Gln Asp Gly Leu Ala
 485 490 495
 Ser Thr Val Arg Ser Leu Gly Glu Thr Gln Leu Val Leu Tyr Gly Asp
 500 505 510
 Val Glu Glu Leu Lys Arg Ser Val Gly Glu Leu Pro Ser Thr Val Glu
 515 520 525
 Ser Leu Gln Lys Val Gln Glu Gln Val His Thr Leu Leu Ser Gln Asp
 530 535 540
 Gln Ala Gln Ala Ala Arg Leu Pro Pro Gln Asp Phe Leu Asp Arg Leu
 545 550 555 560
 Ser Ser Leu Asp Asn Leu Lys Ala Ser Val Ser Gln Val Glu Ala Asp
 565 570 575
 Leu Lys Met Leu Arg Thr Ala Val Asp Ser Leu Val Ala Tyr Ser Val
 580 585 590
 Lys Ile Glu Thr Asn Glu Asn Asn Leu Glu Ser Ala Lys Gly Leu Leu
 595 600 605
 Asp Asp Leu Arg Asn Asp Leu Asp Arg Leu Phe Val Lys Val Glu Lys
 610 615 620
 Ile His Glu Lys Val
 625

<210> 430
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 430
 Pro Gln Trp Cys Pro Arg Ser Gln Ala Arg Ser Ser Ala Ala Ala Ala
 5 10 15
 Ala Arg Ala Ser Val Pro Leu Arg Gly Ser Pro Gly Pro Ser Ala Ile
 20 25 30
 Met Pro Met Phe Ile Val Asn Thr Asn Val Pro Arg Ala Ser Val Pro
 35 40 45
 Asp Gly Phe Leu Ser Glu Leu Thr Gln Gln Leu Ala Gln Ala Thr Gly
 50 55 60
 Lys Pro Pro Gln Tyr Ile Ala Val His Val Val Pro Asp Gln Leu Met
 65 70 75 80
 Ala Phe Gly Gly Ser Ser Glu Pro Cys Ala Leu Cys Ser Leu His Ser
 85 90 95
 Ile Gly Lys Ile Gly Gly Ala Gln Asn Arg Ser Tyr Ser Lys Leu Leu
 100 105 110
 Cys Gly Leu Leu Ala Glu Arg Leu Arg Ile Ser Pro Asp Arg Val Tyr
 115 120 125
 Ile Asn Tyr Tyr Asp Met Asn Ala Ala Asn Val Gly Trp Asn Asn Ser

130
Thr Phe Ala
145

135

140

<210> 431
<211> 775
<212> PRT
<213> Homo sapiens

<400> 431
Leu Ala Pro Pro Arg Gln Leu Glu Ser Thr Ser Ser Ala Val Arg Leu
 5 10 15
Thr Glu Met Leu Arg Ala Cys Gln Leu Ser Gly Val Thr Ala Ala Ala
 20 25 30
Gln Ser Cys Leu Cys Gly Lys Phe Val Leu Arg Pro Leu Arg Pro Cys
 35 40 45
Arg Arg Tyr Ser Thr Ser Gly Ser Ser Gly Leu Thr Thr Gly Lys Ile
 50 55 60
Ala Gly Ala Gly Leu Leu Phe Val Gly Gly Gly Ile Gly Gly Thr Ile
 65 70 75 80
Leu Tyr Ala Lys Trp Asp Ser His Phe Arg Glu Ser Val Glu Lys Thr
 85 90 95
Ile Pro Tyr Ser Asp Lys Leu Phe Glu Met Val Leu Gly Pro Ala Ala
 100 105 110
Tyr Asn Val Pro Leu Pro Lys Lys Ser Ile Gln Ser Gly Pro Leu Lys
 115 120 125
Ile Ser Ser Val Ser Glu Val Met Lys Glu Ser Lys Gln Pro Ala Ser
 130 135 140
Gln Leu Gln Lys Gln Lys Gly Asp Thr Pro Ala Ser Ala Thr Ala Pro
145 150 155 160
Thr Glu Ala Ala Gln Ile Ile Ser Ala Ala Gly Asp Thr Leu Ser Val
 165 170 175
Pro Ala Pro Ala Val Gln Pro Glu Glu Ser Leu Lys Thr Asp His Pro
 180 185 190
Glu Ile Gly Glu Gly Lys Pro Thr Pro Ala Leu Ser Glu Glu Ala Ser
 195 200 205
Ser Ser Ser Ile Arg Glu Arg Pro Pro Glu Glu Val Ala Ala Arg Leu
 210 215 220
Ala Gln Gln Glu Lys Gln Glu Gln Val Lys Ile Glu Ser Leu Ala Lys
225 230 235 240
Ser Leu Glu Asp Ala Leu Arg Gln Thr Ala Ser Val Thr Leu Gln Ala
 245 250 255
Ile Ala Ala Gln Asn Ala Ala Val Gln Ala Val Asn Ala His Ser Asn
 260 265 270
Ile Leu Lys Ala Ala Met Asp Asn Ser Glu Ile Ala Gly Glu Lys Lys
 275 280 285
Ser Ala Gln Trp Arg Thr Val Glu Gly Ala Leu Lys Glu Arg Arg Lys
290 295 300
Ala Val Asp Glu Ala Ala Asp Ala Leu Leu Lys Ala Lys Glu Glu Leu
305 310 315 320
Glu Lys Met Lys Ser Val Ile Glu Asn Ala Lys Lys Lys Glu Val Ala
 325 330 335
Gly Ala Lys Pro His Ile Thr Ala Ala Glu Gly Lys Leu His Asn Met

			340					345					350			
Ile	Val	Asp	Leu	Asp	Asn	Val	Val	Lys	Lys	Val	Gln	Ala	Ala	Gln	Ser	
		355					360					365				
Glu	Ala	Lys	Val	Val	Ser	Gln	Tyr	His	Glu	Leu	Val	Val	Gln	Ala	Arg	
	370					375					380					
Asp	Asp	Phe	Lys	Arg	Glu	Leu	Asp	Ser	Ile	Thr	Pro	Glu	Val	Leu	Pro	
385					390					395					400	
Gly	Trp	Lys	Gly	Met	Ser	Val	Ser	Asp	Leu	Ala	Asp	Lys	Leu	Ser	Thr	
				405					410					415		
Asp	Asp	Leu	Asn	Ser	Leu	Ile	Ala	His	Ala	His	Arg	Arg	Ile	Asp	Gln	
			420					425					430			
Leu	Asn	Arg	Glu	Leu	Ala	Glu	Gln	Lys	Ala	Thr	Glu	Lys	Gln	His	Ile	
	435						440					445				
Thr	Leu	Ala	Leu	Glu	Lys	Gln	Lys	Leu	Glu	Glu	Lys	Arg	Ala	Phe	Asp	
	450					455					460					
Ser	Ala	Val	Ala	Lys	Ala	Leu	Glu	His	His	Arg	Ser	Glu	Ile	Gln	Ala	
465					470					475					480	
Glu	Gln	Asp	Arg	Lys	Ile	Glu	Glu	Val	Arg	Asp	Ala	Met	Glu	Asn	Glu	
				485					490					495		
Met	Arg	Thr	Gln	Leu	Arg	Arg	Gln	Ala	Ala	Ala	His	Thr	Asp	His	Leu	
			500					505					510			
Arg	Asp	Val	Leu	Arg	Val	Gln	Glu	Gln	Glu	Leu	Lys	Ser	Glu	Phe	Glu	
	515						520					525				
Gln	Asn	Leu	Ser	Glu	Lys	Leu	Ser	Glu	Gln	Glu	Leu	Gln	Phe	Arg	Arg	
	530					535					540					
Leu	Ser	Gln	Glu	Gln	Val	Asp	Asn	Phe	Thr	Leu	Asp	Ile	Asn	Thr	Ala	
545					550					555					560	
Tyr	Ala	Arg	Leu	Arg	Gly	Ile	Glu	Gln	Ala	Val	Gln	Ser	His	Ala	Val	
				565					570					575		
Ala	Glu	Glu	Glu	Ala	Arg	Lys	Ala	His	Gln	Leu	Trp	Leu	Ser	Val	Glu	
			580					585					590			
Ala	Leu	Lys	Tyr	Ser	Met	Lys	Thr	Ser	Ser	Ala	Glu	Thr	Pro	Thr	Ile	
	595						600					605				
Pro	Leu	Gly	Ser	Ala	Val	Glu	Ala	Ile	Lys	Ala	Asn	Cys	Ser	Asp	Asn	
	610					615					620					
Glu	Phe	Thr	Gln	Ala	Leu	Thr	Ala	Ala	Ile	Pro	Pro	Glu	Ser	Leu	Thr	
625					630					635					640	
Arg	Gly	Val	Tyr	Ser	Glu	Glu	Thr	Leu	Arg	Ala	Arg	Phe	Tyr	Ala	Val	
				645					650					655		
Gln	Lys	Leu	Ala	Arg	Arg	Val	Ala	Met	Ile	Asp	Glu	Thr	Arg	Asn	Ser	
			660					665					670			
Leu	Tyr	Gln	Tyr	Phe	Leu	Ser	Tyr	Leu	Gln	Ser	Leu	Leu	Leu	Phe	Pro	
	675						680					685				
Pro	Gln	Gln	Leu	Lys	Pro	Pro	Pro	Glu	Leu	Cys	Pro	Glu	Asp	Ile	Asn	
	690															

770

775

<210> 432
 <211> 741
 <212> PRT
 <213> Homo sapiens

<400> 432

Arg	Pro	Lys	Arg	Leu	Arg	Thr	Gly	Asn	Met	Val	Arg	Ser	Gly	Asn	Lys
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Ala	Ala	Val	Val	Leu	Cys	Met	Asp	Val	Gly	Phe	Thr	Met	Ser	Asn	Ser
			20					25					30		
Ile	Pro	Gly	Ile	Glu	Ser	Pro	Phe	Glu	Gln	Ala	Lys	Lys	Val	Ile	Thr
		35					40					45			
Met	Phe	Val	Gln	Arg	Gln	Val	Phe	Ala	Glu	Asn	Lys	Asp	Glu	Ile	Ala
	50					55					60				
Leu	Val	Leu	Phe	Gly	Thr	Asp	Gly	Thr	Asp	Asn	Pro	Leu	Ser	Gly	Gly
	65				70				75					80	
Asp	Gln	Tyr	Gln	Asn	Ile	Thr	Val	His	Arg	His	Leu	Met	Leu	Pro	Asp
				85				90						95	
Phe	Asp	Leu	Leu	Glu	Asp	Ile	Glu	Ser	Lys	Ile	Gln	Pro	Gly	Ser	Gln
			100					105					110		
Gln	Ala	Asp	Phe	Leu	Asp	Ala	Leu	Ile	Val	Ser	Met	Asp	Val	Ile	Gln
		115					120					125			
His	Glu	Thr	Ile	Gly	Lys	Lys	Phe	Glu	Lys	Arg	His	Ile	Glu	Ile	Phe
	130					135				140					
Thr	Asp	Leu	Ser	Ser	Arg	Phe	Ser	Lys	Ser	Gln	Leu	Asp	Ile	Ile	Ile
	145				150					155				160	
His	Ser	Leu	Lys	Lys	Cys	Asp	Ile	Ser	Leu	Gln	Phe	Phe	Leu	Pro	Phe
				165				170						175	
Ser	Leu	Gly	Lys	Glu	Asp	Gly	Ser	Gly	Asp	Arg	Gly	Asp	Gly	Pro	Phe
		180					185					190			
Arg	Leu	Gly	Gly	His	Gly	Pro	Ser	Phe	Pro	Leu	Lys	Gly	Ile	Thr	Glu
		195				200						205			
Gln	Gln	Lys	Glu	Gly	Leu	Glu	Ile	Val	Lys	Met	Val	Met	Ile	Ser	Leu
		210				215					220				
Glu	Gly	Glu	Asp	Gly	Leu	Asp	Glu	Ile	Tyr	Ser	Phe	Ser	Glu	Ser	Leu
	225				230					235				240	
Arg	Lys	Leu	Cys	Val	Phe	Lys	Lys	Ile	Glu	Arg	His	Ser	Ile	His	Trp
				245				250						255	
Pro	Cys	Arg	Leu	Thr	Ile	Gly	Ser	Asn	Leu	Ser	Ile	Arg	Ile	Ala	Ala
			260					265					270		
Tyr	Lys	Ser	Ile	Leu	Gln	Glu	Arg	Val	Lys	Lys	Thr	Trp	Thr	Val	Val
		275					280					285			
Asp	Ala	Lys	Thr	Leu	Lys	Lys	Glu	Asp	Ile	Gln	Lys	Glu	Thr	Val	Tyr
		290				295					300				
Cys	Leu	Asn	Asp	Asp	Asp	Glu	Thr	Glu	Val	Leu	Lys	Glu	Asp	Ile	Ile
	305				310					315				320	
Gln	Gly	Phe	Arg	Tyr	Gly	Ser	Asp	Ile	Val	Pro	Phe	Ser	Lys	Val	Asp
				325					330					335	
Glu	Glu	Gln	Met	Lys	Tyr	Lys	Ser	Glu	Gly	Lys	Cys	Phe	Ser	Val	Leu
			340					345					350		
Gly	Phe	Cys	Lys	Ser	Ser	Gln	Val	Gln	Arg	Arg	Phe	Phe	Met	Gly	Asn

355				360				365							
Gln	Val	Leu	Lys	Val	Phe	Ala	Ala	Arg	Asp	Asp	Glu	Ala	Ala	Ala	Val
370						375					380				
Ala	Leu	Ser	Ser	Leu	Ile	His	Ala	Leu	Asp	Asp	Leu	Asp	Met	Val	Ala
385						390					395				400
Ile	Val	Arg	Tyr	Ala	Tyr	Asp	Lys	Arg	Ala	Asn	Pro	Gln	Val	Gly	Val
				405					410					415	
Ala	Phe	Pro	His	Ile	Lys	His	Asn	Tyr	Glu	Cys	Leu	Val	Tyr	Val	Gln
				420					425					430	
Leu	Pro	Phe	Met	Glu	Asp	Leu	Arg	Gln	Tyr	Met	Phe	Ser	Ser	Leu	Lys
				435					440					445	
Asn	Ser	Lys	Lys	Tyr	Ala	Pro	Thr	Glu	Ala	Gln	Leu	Asn	Ala	Val	Asp
				450							460				
Ala	Leu	Ile	Asp	Ser	Met	Ser	Leu	Ala	Lys	Lys	Asp	Glu	Lys	Thr	Asp
465					470						475				480
Thr	Leu	Glu	Asp	Leu	Phe	Pro	Thr	Thr	Lys	Ile	Pro	Asn	Pro	Arg	Phe
				485							490				495
Gln	Arg	Leu	Phe	Gln	Cys	Leu	Leu	His	Arg	Ala	Leu	His	Pro	Arg	Glu
				500					505					510	
Pro	Leu	Pro	Pro	Ile	Gln	Gln	His	Ile	Trp	Asn	Met	Leu	Asn	Pro	Pro
				515					520					525	
Ala	Glu	Val	Thr	Thr	Lys	Ser	Gln	Ile	Pro	Leu	Ser	Lys	Ile	Lys	Thr
				530					535					540	
Leu	Phe	Pro	Leu	Ile	Glu	Ala	Lys	Lys	Lys	Asp	Gln	Val	Thr	Ala	Gln
545					550						555				560
Glu	Ile	Phe	Gln	Asp	Asn	His	Glu	Asp	Gly	Pro	Thr	Ala	Lys	Lys	Leu
				565							570				575
Lys	Thr	Glu	Gln	Gly	Gly	Ala	His	Phe	Ser	Val	Ser	Ser	Leu	Ala	Glu
				580					585					590	
Gly	Ser	Val	Thr	Ser	Val	Gly	Ser	Val	Asn	Pro	Ala	Glu	Asn	Phe	Arg
				595					600					605	
Val	Leu	Val	Lys	Gln	Lys	Lys	Ala	Ser	Phe	Glu	Glu	Ala	Ser	Asn	Gln
				610					615					620	
Leu	Ile	Asn	His	Ile	Glu	Gln	Phe	Leu	Asp	Thr	Asn	Glu	Thr	Pro	Tyr
625					630						635				640
Phe	Met	Lys	Ser	Ile	Asp	Cys	Ile	Arg	Ala	Phe	Arg	Glu	Glu	Ala	Ile
				645					650					655	
Lys	Phe	Ser	Glu	Glu	Gln	Arg	Phe	Asn	Asn	Phe	Leu	Lys	Ala	Leu	Gln
				660					665					670	
Glu	Lys	Val	Glu	Ile	Lys	Gln	Leu	Asn	His	Phe	Trp	Glu	Ile	Val	Val
				675					680					685	
Gln	Asp	Gly	Ile	Thr	Leu	Ile	Thr	Lys	Glu	Glu	Ala	Ser	Gly	Ser	Ser
				690					695					700	
Val	Thr	Ala	Glu	Glu	Ala	Lys	Lys	Phe	Leu	Ala	Pro	Lys	Asp	Lys	Pro
705					710						715				720
Ser	Gly	Asp	Thr	Ala	Ala	Val	Phe	Glu	Glu	Gly	Gly	Asp	Val	Asp	Asp
				725					730					735	
Leu	Leu	Asp	Met	Ile											
				740											

<210> 433

<211> 291

<212> PRT

<213> Homo sapiens

<400> 433

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Phe Arg Pro Arg Tyr Glu Gly Arg Gly Arg Gly Cys Cys Gly Arg Val
      5              10              15
Leu Leu Leu Arg Arg Gly Leu His Val Asp Cys Gly Lys Leu Gly Asn
      20              25              30
Lys Leu Thr Ser Ser Cys Gly Lys Pro Ser Ser Asn Arg Met Ser Leu
      35              40              45
Gln Trp Thr Ala Val Ala Thr Phe Leu Tyr Ala Glu Val Phe Val Val
      50              55              60
Leu Leu Leu Cys Ile Pro Phe Ile Ser Pro Lys Arg Trp Gln Lys Ile
      65              70              75              80
Phe Lys Ser Arg Leu Val Glu Leu Leu Val Ser Tyr Gly Asn Thr Phe
      85              90              95
Phe Val Val Leu Ile Val Ile Leu Val Leu Leu Val Ile Asp Ala Val
      100             105             110
Arg Glu Ile Arg Lys Tyr Asp Asp Val Thr Glu Lys Val Asn Leu Gln
      115             120             125
Asn Asn Pro Gly Ala Met Glu His Phe His Met Lys Leu Phe Arg Ala
      130             135             140
Gln Arg Asn Leu Tyr Ile Ala Gly Phe Ser Leu Leu Leu Ser Phe Leu
      145             150             155             160
Leu Arg Arg Leu Val Thr Leu Ile Ser Gln Gln Ala Thr Leu Leu Ala
      165             170             175
Ser Asn Glu Ala Phe Lys Lys Gln Ala Glu Ser Ala Ser Glu Ala Ala
      180             185             190
Lys Lys Tyr Met Glu Glu Asn Asp Gln Leu Lys Lys Gly Ala Ala Val
      195             200             205
Asp Gly Gly Lys Leu Asp Val Gly Asn Ala Glu Val Lys Leu Glu Glu
      210             215             220
Glu Asn Arg Ser Leu Lys Ala Asp Leu Gln Lys Leu Lys Asp Glu Leu
      225             230             235             240
Ala Ser Thr Lys Gln Lys Leu Glu Lys Ala Glu Asn Gln Val Leu Ala
      245             250             255
Met Arg Lys Gln Ser Glu Gly Leu Thr Lys Glu Tyr Asp Arg Leu Leu
      260             265             270
Glu Glu His Ala Lys Leu Gln Ala Ala Val Asp Gly Pro Met Asp Lys
      275             280             285
Lys Glu Glu
      290

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<210> 434

<211> 349

<212> PRT

<213> Homo sapiens

<400> 434

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Gly Val Ala Pro Trp Gly Arg Gly Arg Ala Ala Pro Arg Cys Ala Ser
      5              10              15
Ala Thr Val Gly Gly Ser Gly Ile Gly Arg Leu Arg Gly Ile Thr Ser
      20              25              30
Ser Gly Leu Lys Met Asp Asn Lys Lys Arg Leu Ala Tyr Ala Ile Ile

```

35					40					45					
Gln	Phe	Leu	His	Asp	Gln	Leu	Arg	His	Gly	Gly	Leu	Ser	Ser	Asp	Ala
50					55					60					
Gln	Glu	Ser	Leu	Glu	Val	Ala	Ile	Gln	Cys	Leu	Glu	Thr	Ala	Phe	Gly
65					70					75					80
Val	Thr	Val	Glu	Asp	Ser	Asp	Leu	Ala	Leu	Pro	Gln	Thr	Leu	Pro	Glu
				85					90					95	
Ile	Phe	Glu	Ala	Ala	Thr	Gly	Lys	Glu	Met	Pro	Gln	Asp	Leu	Arg	
			100				105					110			
Ser	Pro	Ala	Arg	Thr	Pro	Pro	Ser	Glu	Glu	Asp	Ser	Ala	Glu	Ala	Glu
			115				120					125			
Arg	Leu	Lys	Thr	Glu	Gly	Asn	Glu	Gln	Met	Lys	Val	Glu	Asn	Phe	Glu
130					135					140					
Ala	Ala	Val	His	Phe	Tyr	Gly	Lys	Ala	Ile	Glu	Leu	Asn	Pro	Ala	Asn
145					150					155					160
Ala	Val	Tyr	Phe	Cys	Asn	Arg	Ala	Ala	Ala	Tyr	Ser	Lys	Leu	Gly	Asn
				165					170					175	
Tyr	Ala	Gly	Ala	Val	Gln	Asp	Cys	Glu	Arg	Ala	Ile	Cys	Ile	Asp	Pro
			180					185				190			
Ala	Tyr	Ser	Lys	Ala	Tyr	Gly	Arg	Met	Gly	Leu	Ala	Leu	Ser	Ser	Leu
			195				200					205			
Asn	Lys	His	Val	Glu	Ala	Val	Ala	Tyr	Tyr	Lys	Lys	Ala	Leu	Glu	Leu
210					215					220					
Asp	Pro	Asp	Asn	Glu	Thr	Tyr	Lys	Ser	Asn	Leu	Lys	Ile	Ala	Glu	Leu
225					230					235					240
Lys	Leu	Arg	Glu	Ala	Pro	Ser	Pro	Thr	Gly	Gly	Val	Gly	Ser	Phe	Asp
				245					250					255	
Ile	Ala	Gly	Leu	Leu	Asn	Asn	Pro	Gly	Phe	Met	Ser	Met	Ala	Ser	Asn
			260					265					270		
Leu	Met	Asn	Asn	Pro	Gln	Ile	Gln	Gln	Leu	Met	Ser	Gly	Met	Ile	Ser
			275				280					285			
Gly	Gly	Asn	Asn	Pro	Leu	Gly	Thr	Pro	Gly	Thr	Ser	Pro	Ser	Gln	Asn
290					295					300					
Asp	Leu	Ala	Ser	Leu	Ile	Gln	Ala	Gly	Gln	Gln	Phe	Ala	Gln	Gln	Met
305					310					315					320
Gln	Gln	Gln	Asn	Pro	Glu	Leu	Ile	Glu	Gln	Leu	Arg	Ser	Gln	Ile	Arg
				325					330					335	
Ser	Arg	Thr	Pro	Ser	Ala	Ser	Asn	Asp	Asp	Gln	Gln	Glu			
			340					345							

<210> 435

<211> 519

<212> PRT

<213> Homo sapiens

<400> 435

Gln	Pro	Ser	Ala	Glu	Pro	Arg	Arg	Thr	Met	Pro	Ala	Val	Asp	Lys	Leu
			5						10					15	
Leu	Leu	Glu	Glu	Ala	Leu	Gln	Asp	Ser	Pro	Gln	Thr	Arg	Ser	Leu	Leu
			20					25					30		
Ser	Val	Phe	Glu	Glu	Asp	Ala	Gly	Thr	Leu	Thr	Asp	Tyr	Thr	Asn	Gln
		35					40					45			
Leu	Leu	Gln	Ala	Met	Gln	Arg	Val	Tyr	Gly	Ala	Gln	Asn	Glu	Met	Cys

50	55	60
Leu Ala Thr Gln Gln	Leu Ser Lys Gln Leu	Leu Ala Tyr Glu Lys Gln
65	70	75
Asn Phe Ala Leu Gly	Lys Gly Asp Glu Glu	Val Ile Ser Thr Leu His
85	90	95
Tyr Phe Ser Lys Val	Val Asp Glu Leu Asn	Leu Leu His Thr Glu Leu
100	105	110
Ala Lys Gln Leu Ala	Asp Thr Met Val Leu	Pro Ile Ile Gln Phe Arg
115	120	125
Glu Lys Asp Leu Thr	Glu Val Ser Thr Leu	Lys Asp Leu Phe Gly Leu
130	135	140
Ala Ser Asn Glu His	Asp Leu Ser Met Ala	Lys Tyr Ser Arg Leu Pro
145	150	155
Lys Lys Lys Glu Asn	Glu Lys Val Lys Thr	Glu Val Gly Lys Glu Val
165	170	175
Ala Ala Ala Arg Arg	Lys Gln His Leu Ser	Ser Leu Gln Tyr Tyr Cys
180	185	190
Ala Leu Asn Ala Leu	Gln Tyr Arg Lys Gln	Met Ala Met Met Glu Pro
195	200	205
Met Ile Gly Phe Ala	His Gly Gln Ile Asn	Phe Phe Lys Lys Gly Ala
210	215	220
Glu Met Phe Ser Lys	Arg Met Asp Ser Phe	Leu Ser Ser Val Ala Asp
225	230	235
Met Val Gln Ser Ile	Gln Val Glu Leu Glu	Ala Glu Ala Glu Lys Met
245	250	255
Arg Val Ser Gln Gln	Glu Leu Leu Ser Val	Asp Glu Ser Val Tyr Thr
260	265	270
Pro Asp Ser Asp Val	Ala Ala Pro Gln Ile	Asn Arg Asn Leu Ile Gln
275	280	285
Lys Ala Gly Tyr Leu	Asn Leu Arg Asn Lys	Thr Gly Leu Val Thr Thr
290	295	300
Thr Trp Glu Arg Leu	Tyr Phe Phe Thr Gln	Gly Gly Asn Leu Met Cys
305	310	315
Gln Pro Arg Gly Ala	Val Ala Gly Gly Leu	Ile Gln Asp Leu Asp Asn
325	330	335
Cys Ser Val Met Ala	Val Asp Cys Glu Asp	Arg Arg Tyr Cys Phe Gln
340	345	350
Ile Thr Thr Pro Asn	Gly Lys Ser Gly Ile	Ile Leu Gln Ala Glu Ser
355	360	365
Arg Lys Glu Asn Glu	Glu Trp Ile Cys Ala	Ile Asn Asn Thr Ser Arg
370	375	380
Gln Ile Tyr Leu Thr	Asp Asn Pro Glu Ala	Val Ala Ile Lys Leu Asn
385	390	395
Gln Thr Ala Leu Gln	Ala Val Thr Pro Ile	Thr Ser Phe Gly Lys Lys
405	410	415
Gln Glu Ser Ser Cys	Pro Ser Gln Asn Leu	Lys Asn Ser Glu Met Glu
420	425	430
Asn Glu Asn Asp Lys	Ile Val Pro Lys Ala	Thr Ala Ser Leu Pro Glu
435	440	445
Ala Glu Glu Leu Ile	Ala Pro Gly Thr Pro	Ile Gln Phe Asp Ile Val
450	455	460
Leu Pro Ala Thr Glu	Phe Leu Asp Gln Asn	Arg Gly Ser Arg Arg Thr
465	470	475
Asn Pro Phe Gly Glu	Thr Glu Asp Glu Ser	Phe Pro Glu Ala Glu Asp

485 490 495
 Ser Leu Leu Gln Gln Met Phe Ile Val Arg Phe Leu Gly Ser Met Ala
 500 505 510
 Val Lys Thr Asp Ser Thr Thr
 515

<210> 436
 <211> 357
 <212> PRT
 <213> Homo sapiens

<400> 436
 Met Leu Gln Ile His Leu Pro Gly Arg His Thr Leu Phe Val Arg Ala
 5 10 15
 Met Ile Asp Ser Gly Ala Ser Gly Asn Phe Ile Asp His Glu Tyr Val
 20 25 30
 Ala Gln Asn Gly Ile Pro Leu Arg Ile Lys Asp Trp Pro Ile Leu Val
 35 40 45
 Glu Ala Ile Asp Gly Arg Pro Ile Ala Ser Gly Pro Val Val His Glu
 50 55 60
 Thr His Asp Leu Ile Val Asp Leu Gly Asp His Arg Glu Val Leu Ser
 65 70 75 80
 Phe Asp Val Thr Gln Ser Pro Phe Phe Pro Val Val Leu Gly Val Arg
 85 90 95
 Trp Leu Ser Thr His Asp Pro Asn Ile Thr Trp Ser Thr Arg Ser Ile
 100 105 110
 Val Phe Asp Ser Glu Tyr Cys Arg Tyr His Cys Arg Met Tyr Ser Pro
 115 120 125
 Ile Pro Pro Ser Leu Pro Pro Pro Ala Pro Gln Pro Pro Leu Tyr Tyr
 130 135 140
 Pro Val Asp Gly Tyr Arg Val Tyr Gln Pro Val Arg Tyr Tyr Tyr Val
 145 150 155 160
 Gln Asn Val Tyr Thr Pro Val Asp Glu His Val Tyr Pro Asp His Arg
 165 170 175
 Leu Val Asp Pro His Ile Glu Met Ile Pro Gly Ala His Ser Ile Pro
 180 185 190
 Ser Gly His Val Tyr Ser Leu Ser Glu Pro Glu Met Ala Ala Leu Arg
 195 200 205
 Asp Phe Val Ala Arg Asn Val Lys Asp Gly Leu Ile Thr Pro Thr Ile
 210 215 220
 Ala Pro Asn Gly Ala Gln Val Leu Gln Val Lys Arg Gly Trp Lys Leu
 225 230 235 240
 Gln Val Ser Tyr Asp Cys Arg Ala Pro Asn Asn Phe Thr Ile Gln Asn
 245 250 255
 Gln Tyr Pro Arg Leu Ser Ile Pro Asn Leu Glu Asp Gln Ala His Leu
 260 265 270
 Ala Thr Tyr Thr Glu Phe Val Pro Gln Ile Pro Gly Tyr Gln Thr Tyr
 275 280 285
 Pro Thr Tyr Ala Ala Tyr Pro Thr Tyr Pro Val Gly Phe Ala Trp Tyr
 290 295 300
 Pro Val Gly Arg Asp Gly Gln Gly Arg Ser Leu Tyr Val Pro Val Met
 305 310 315 320
 Ile Thr Trp Asn Pro His Trp Tyr Arg Gln Pro Pro Val Pro Gln Tyr

325 330 335
 Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro
 340 345 350
 Ser Tyr Ser Thr Leu
 355

<210> 437
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 437
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 ccatggccaa cctggagcgc accttcacgc ccatcaagcc ggacggcgtg cagcgcggcc 120
 tggtagggcga gatcatcaag cgcttcgagc agaagggtt ccgcctcgtg gccatgaagt 180
 tcttccgggc ctctgaagaa cacctgaagc agcactacat tgacctgaaa gaccgaccat 240
 tcttccctgg gctggtgaag tacatgaact cagggccggg tgtggccatg gtctgggagg 300
 ggctgaacgt ggtgaagaca ggccgagtga tgcttgggga gaccaatcca gcagattcaa 360
 agccaggcac cattcgtggg gacttctgca ttcagggttg caggaacatc attcatggca 420
 gtgattcagt aaaaagtgtc gaaaaagaaa tcancctatg gtttaagcct gaanaactgg 480
 ttgactacaa gtcttgtgtc c 501

<210> 438
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 438
 tgaaatactg gagctgttgt agaagaaaaa cttctgattt taatacattc ttagcccaag 60
 agggctgtac aaaagggaac cacatgtgga ctaaaaaaga tgctgggaaa aaagttgttc 120
 catgtagaca tgactggcat cagactggag ggtgaaagt ccatttcagt atatgctaaa 180
 aactcacttc cagaacttag ccgagtagaa gcaaatagca cattgttaaa tgtgcatatt 240
 gtatttgaag gagagaagga atttgatcaa aatgtgaaat tatggggtgt gattgatgta 300
 aagcgaagtt atgtaactat gactgcaaca aagattgaaa tcactatgag aaaagctgaa 360
 ccgatgcagt gggcaagcct tgaactgcct gcagctaaaa agcaggaaaa acaaaaagat 420
 gacacaacag attgagtggg agatggaagg aaggctatta cattatttcc gaatttttaa 480
 tactgtgtga agtgggtggc t 501

<210> 439
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 439
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 aagacaatga tgaaattaag attgggacct catgtaagaa tggagggtgt tcaaagacat 120
 accagggtct agagagtota gaagaagtct gtgtatatca ttctggagta cctattttcc 180

atgaggggat	gaaatactgg	agctgttgta	gaagaaaaac	ttctgatttt	aatacattct	240
tagcccaaga	gggctgtaca	aaagggaaac	acatgtggac	taaaaaagat	gctgggaaaa	300
aagttgttcc	atgtagacat	gactggcatc	agactggagg	tgaagttacc	atttcagtat	360
atgctaaaaa	ctcacttcca	gaacttagcc	cgagtagaag	caaatagcac	attgttaa	420
gtgcatattg	tatttgaagg	agagaaggaa	tttgatcaaa	atgtgaaatt	atgggggtgtg	480
attgatgtaa	agcgaattat	t				501

<210> 440

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(481)

<223> n = A,T,C or G

<400> 440

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cagtcaaaag	aaagatacaa	gcaatcattt	ccatgtcttt	gttggtgatc	tcagcccaga	180
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t						481